

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012819\
 Data File : VD060793.D
 Acq On : 28 Jan 2019 16:10
 Operator : JC/SY
 Sample : VSTDIC020
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

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 1/29/2019 4:55:36 PM

Quant Time: Jan 29 13:57:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 12:47:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.79	168	554012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.98	114	809151	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.17	117	636342	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.32	152	336340	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.22	65	171224	20.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.32%	
35) Dibromofluoromethane	6.68	113	153603	19.79	ug/l	0.01
Spiked Amount	50.000		Recovery	=	39.58%	
50) Toluene-d8	10.19	98	364817	20.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.26%	
62) 4-Bromofluorobenzene	13.36	95	184863	20.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.60%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.58	85	115490	17.146	ug/l	97
3) Chloromethane	1.76	50	78052	19.354	ug/l	99
4) Vinyl Chloride	1.85	62	78960	18.445	ug/l	92
5) Bromomethane	2.14	94	23328m	16.229	ug/l	
6) Chloroethane	2.23	64	25233m	16.377	ug/l	
7) Trichlorofluoromethane	2.48	101	155094	18.405	ug/l	99
8) Diethyl Ether	2.81	74	23598	19.005	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	3.06	101	84758	19.847	ug/l	94
10) Methyl Iodide	3.21	142	87925	19.665	ug/l	93
11) Tert butyl alcohol	3.93	59	43155	106.321	ug/l #	91
12) 1,1-Dichloroethene	3.04	96	56318	19.298	ug/l	98
13) Acrolein	2.95	56	19149m	116.205	ug/l	
14) Allyl chloride	3.50	41	128569	18.931	ug/l	92
15) Acrylonitrile	4.04	53	94556	103.970	ug/l	96
16) Acetone	3.13	43	110188	90.167	ug/l	98
17) Carbon Disulfide	3.28	76	211633	20.473	ug/l #	95
18) Methyl Acetate	3.51	43	45806	18.836	ug/l #	90
19) Methyl tert-butyl Ether	4.08	73	270425	20.297	ug/l	97
20) Methylene Chloride	3.68	84	127430	20.379	ug/l	97
21) trans-1,2-Dichloroethene	4.06	96	110376	21.455	ug/l	93
22) Diisopropyl ether	4.89	45	351191	20.067	ug/l	89
23) Vinyl Acetate	4.83	43	1033415	102.541	ug/l	100
24) 1,1-Dichloroethane	4.76	63	215895	18.844	ug/l	97
25) 2-Butanone	5.84	43	147117	93.695	ug/l	99
26) 2,2-Dichloropropane	5.79	77	237968	19.713	ug/l	99
27) cis-1,2-Dichloroethene	5.80	96	115839	19.770	ug/l	94
28) Bromochloromethane	6.20	49	91783	20.537	ug/l	90
29) Tetrahydrofuran	6.23	42	73771	97.836	ug/l	98
30) Chloroform	6.42	83	265058	19.574	ug/l	98
31) Cyclohexane	6.71	56	146872	18.842	ug/l	94
32) 1,1,1-Trichloroethane	6.63	97	260174	19.952	ug/l	98
36) 1,1-Dichloropropene	6.91	75	174133	18.024	ug/l	98
37) Ethyl Acetate	5.95	43	80929	18.765	ug/l #	94
38) Carbon Tetrachloride	6.87	117	221278	18.265	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.62	83	156000	19.281	ug/l	97
40) Benzene	7.22	78	354321	18.582	ug/l	97
41) Methacrylonitrile	6.21	41	50878m	17.941	ug/l	
42) 1,2-Dichloroethane	7.34	62	214914	19.402	ug/l	99
43) Isopropyl Acetate	9.01	43	106067	18.857	ug/l	99
44) Trichloroethene	8.31	130	121099	18.734	ug/l	90
45) 1,2-Dichloropropane	8.71	63	101047	19.577	ug/l	97
46) Dibromomethane	8.83	93	78476	19.585	ug/l	93
47) Bromodichloromethane	9.14	83	217704	20.129	ug/l	96
48) Methyl methacrylate	8.89	41	67331	17.359	ug/l	95
49) 1,4-Dioxane	8.86	88	11666	387.929	ug/l #	82
51) 4-Methyl-2-Pentanone	10.08	43	361153	99.147	ug/l	100
52) Toluene	10.29	92	226000	18.685	ug/l	93
53) t-1,3-Dichloropropene	10.69	75	184542	19.398	ug/l	97
54) cis-1,3-Dichloropropene	9.81	75	186883	19.156	ug/l	96
55) 1,1,2-Trichloroethane	10.98	97	78411	19.014	ug/l	96
56) Ethyl methacrylate	10.83	69	94689	18.955	ug/l	94
57) 1,3-Dichloropropane	11.19	76	139666	19.817	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.63	63	277554	105.892	ug/l	98
59) 2-Hexanone	11.32	43	256702	93.726	ug/l	97
60) Dibromochloromethane	11.48	129	139139	18.768	ug/l	98
61) 1,2-Dibromoethane	11.60	107	85732	17.653	ug/l	96
64) Tetrachloroethene	11.03	164	114401	19.589	ug/l	94
65) Chlorobenzene	12.20	112	277118	19.057	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.30	131	119634	19.149	ug/l	97
67) Ethyl Benzene	12.31	91	514000	19.657	ug/l	100
68) m/p-Xylenes	12.46	106	348932	41.015	ug/l	97
69) o-Xylene	12.85	106	163782	19.451	ug/l	98
70) Styrene	12.88	104	263900	18.690	ug/l	95
71) Bromoform	13.03	173	90209	19.164	ug/l	98
73) Isopropylbenzene	13.20	105	494738	18.449	ug/l	99
74) N-amyl acetate	13.06	43	145530	17.653	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.51	83	90617	18.558	ug/l	94
76) 1,2,3-Trichloropropane	13.54	75	114331	18.537	ug/l	96
77) Bromobenzene	13.48	156	129189	18.741	ug/l	88
78) n-propylbenzene	13.57	91	657287	19.525	ug/l	96
79) 2-Chlorotoluene	13.64	91	401946	19.576	ug/l	95
80) 1,3,5-Trimethylbenzene	14.05	105	459218	19.892	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.28	75	31229	19.421	ug/l	89
82) 4-Chlorotoluene	13.75	91	472661	20.712	ug/l	98
83) tert-Butylbenzene	14.00	119	497862	20.613	ug/l	87
84) 1,2,4-Trimethylbenzene	14.05	105	459218	19.892	ug/l	96
85) sec-Butylbenzene	14.18	105	520505	18.931	ug/l	94
86) p-Isopropyltoluene	14.29	119	434410	19.461	ug/l	98
87) 1,3-Dichlorobenzene	14.26	146	232637	18.868	ug/l	95
88) 1,4-Dichlorobenzene	14.34	146	215859	18.018	ug/l	97
89) n-Butylbenzene	14.61	91	455279	19.548	ug/l	97
90) Hexachloroethane	14.82	117	120163	18.090	ug/l	89
91) 1,2-Dichlorobenzene	14.62	146	200830	19.623	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.19	75	20423	17.605	ug/l	80

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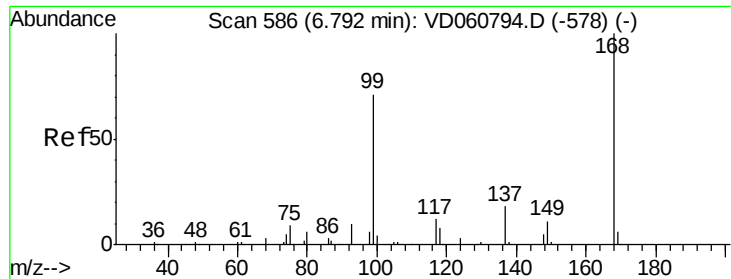
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.75	180	179471	20.253	ug/l	98
94) Hexachlorobutadiene	15.85	225	130877	19.684	ug/l	96
95) Naphthalene	15.93	128	274207	20.140	ug/l	99
96) 1,2,3-Trichlorobenzene	16.08	180	149786	19.439	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.79 min Scan# 586

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 554012

Ion Ratio Lower Upper

168 100

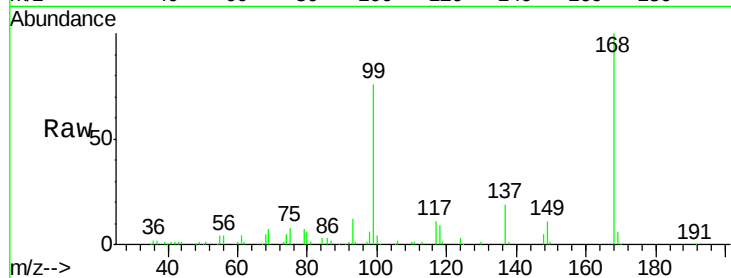
99 76.4 59.2 88.8

Manual Integrations

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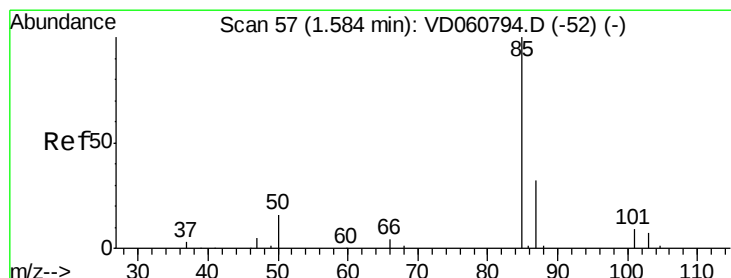
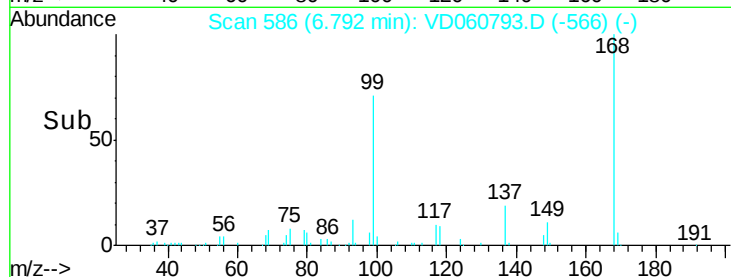
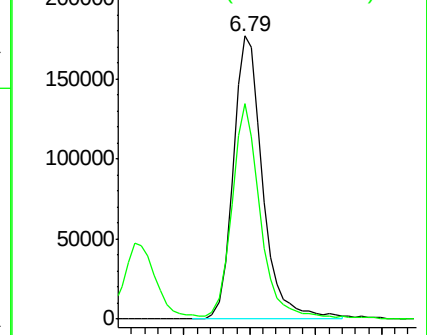
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 17.146 ug/l

RT: 1.58 min Scan# 57

Delta R.T. 0.00 min

Lab File: VD060793.D

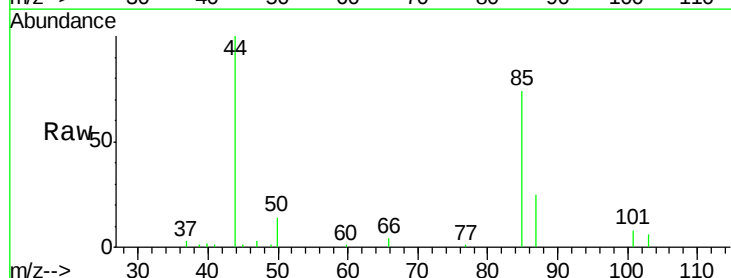
Acq: 28 Jan 2019 16:10

Tgt Ion: 85 Resp: 115490

Ion Ratio Lower Upper

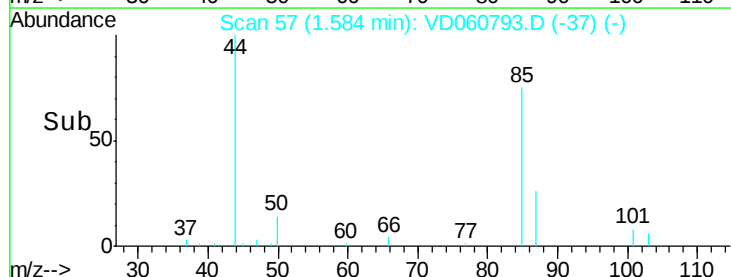
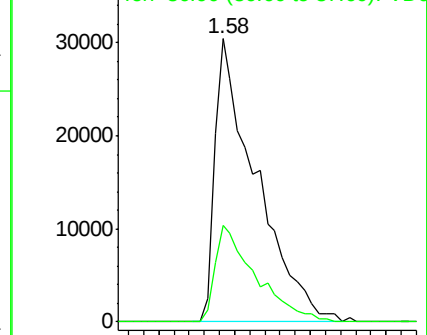
85 100

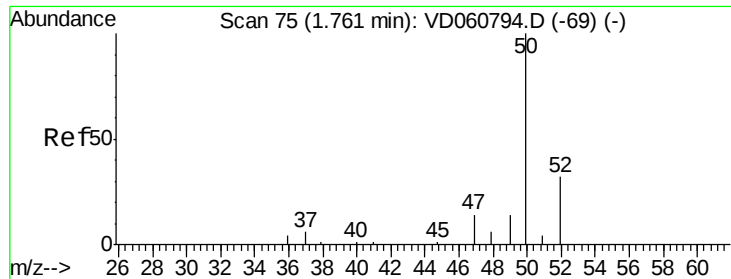
87 34.1 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 19.354 ug/l

RT: 1.76 min Scan# 75

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampled :

VSTDIC020

Tot Ion: 50 Resp: 78052

Ion Ratio Lower Upper

50 100

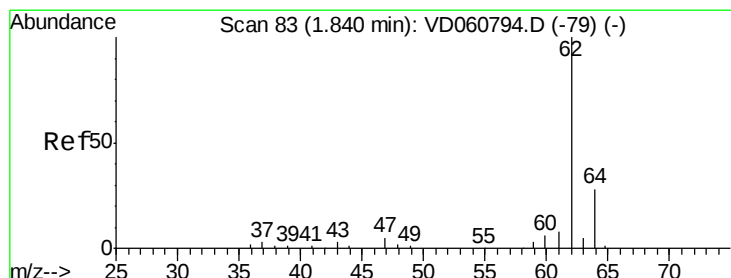
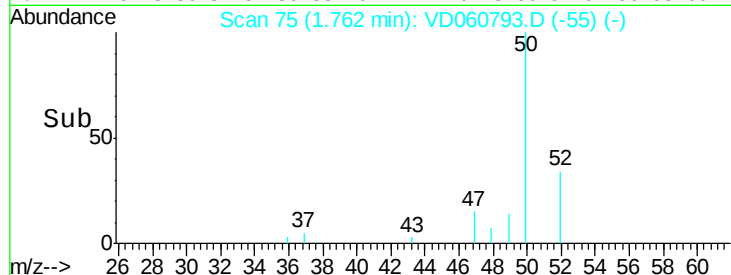
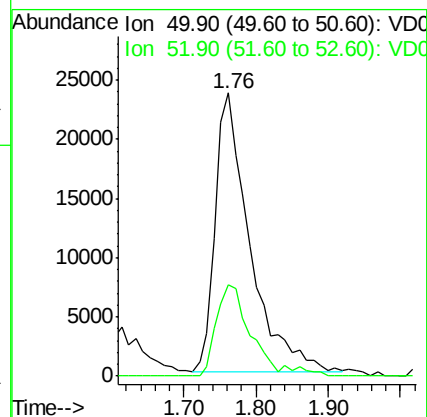
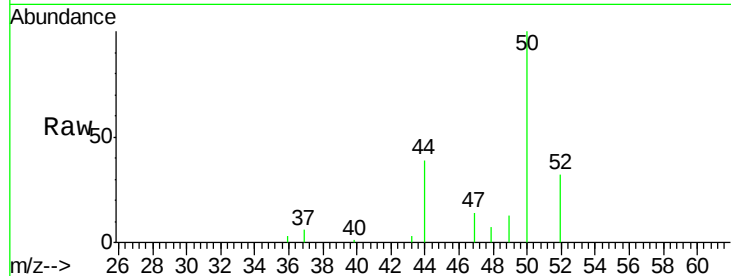
52 32.3 25.2 37.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.445 ug/l

RT: 1.85 min Scan# 84

Delta R.T. 0.01 min

Lab File: VD060793.D

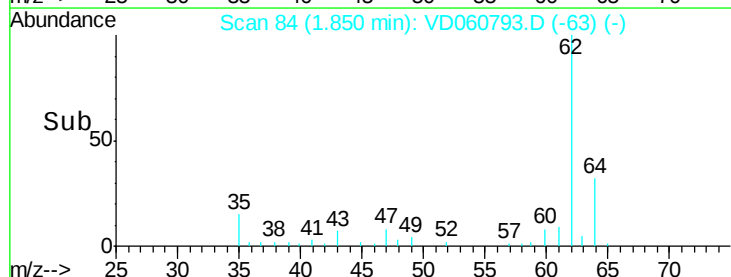
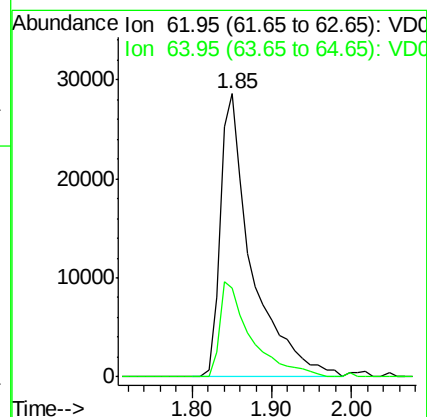
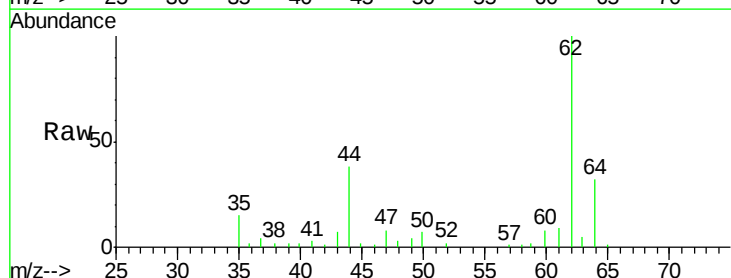
Acq: 28 Jan 2019 16:10

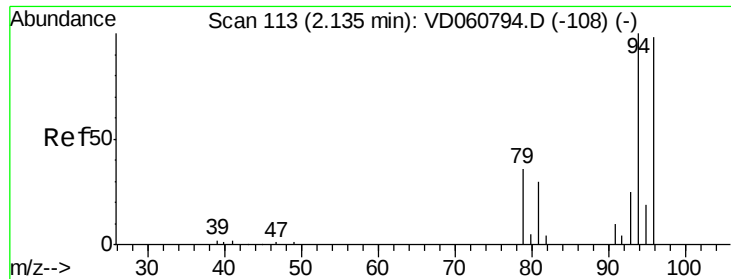
Tgt Ion: 62 Resp: 78960

Ion Ratio Lower Upper

62 100

64 31.6 22.1 33.1





#5

Bromomethane

Concen: 16.229 ug/l m

RT: 2.14 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

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Tot Ion: 94 Resp: 23328

Ion Ratio Lower Upper

94 100

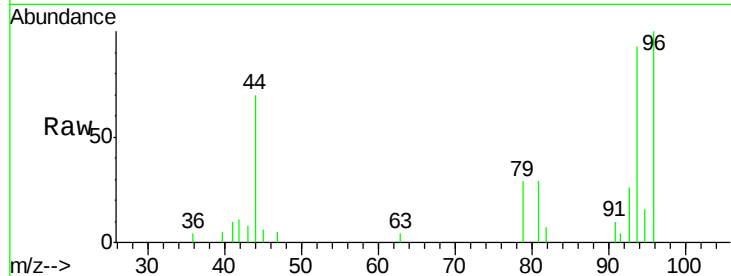
96 108.1 78.0 117.0

Manual Integrations

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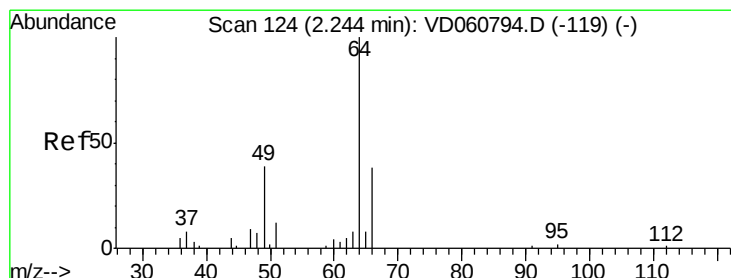
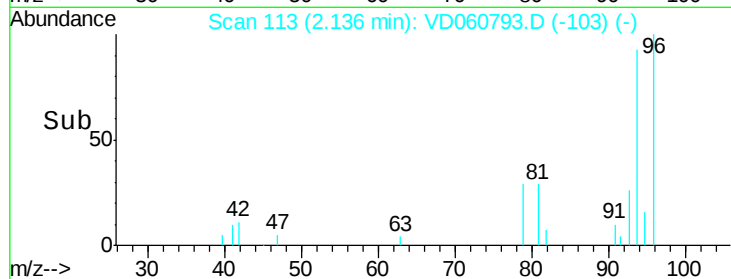
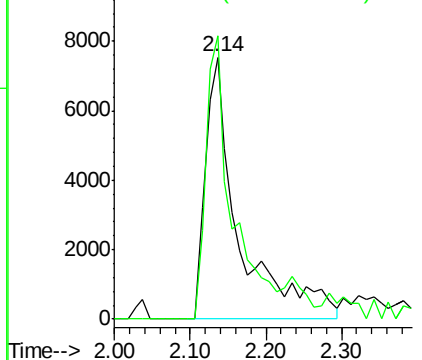
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 16.377 ug/l m

RT: 2.23 min Scan# 123

Delta R.T. -0.01 min

Lab File: VD060793.D

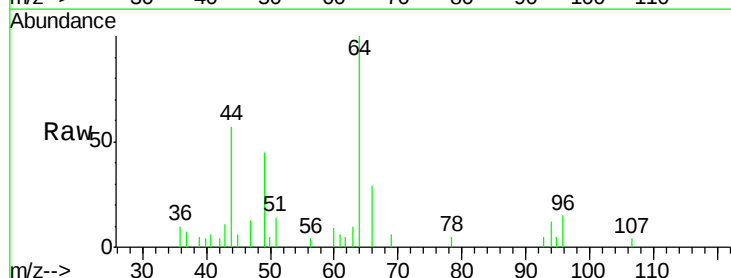
Acq: 28 Jan 2019 16:10

Tgt Ion: 64 Resp: 25233

Ion Ratio Lower Upper

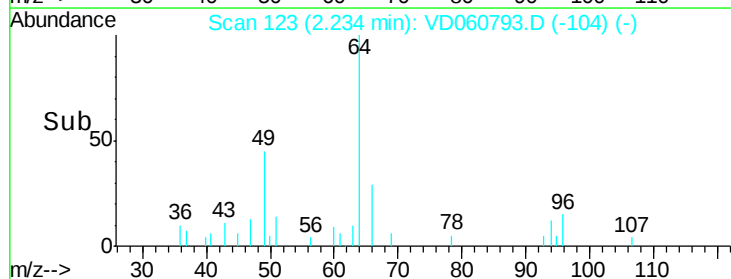
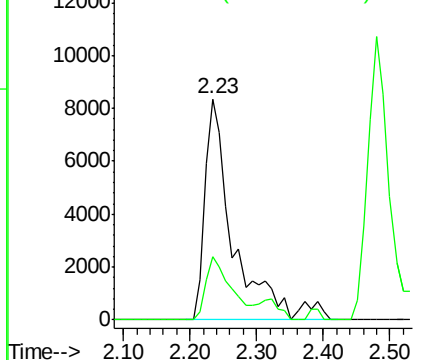
64 100

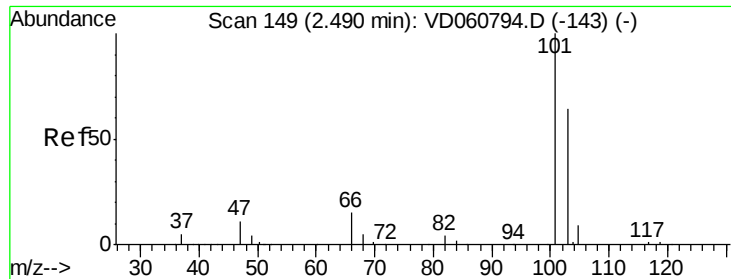
66 28.5 30.2 45.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

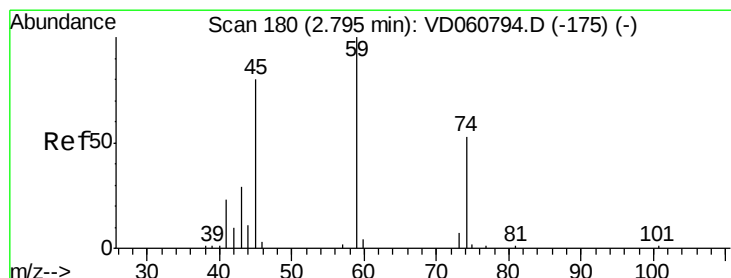
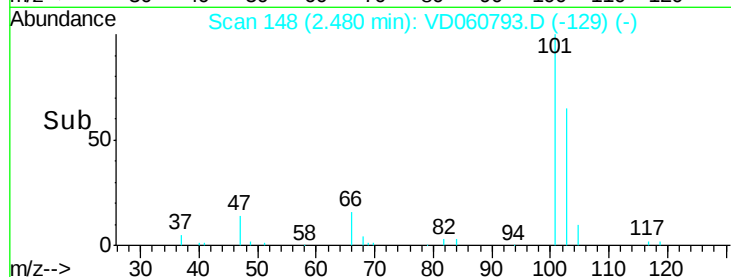
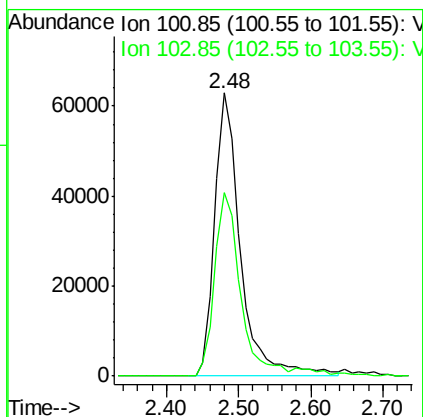
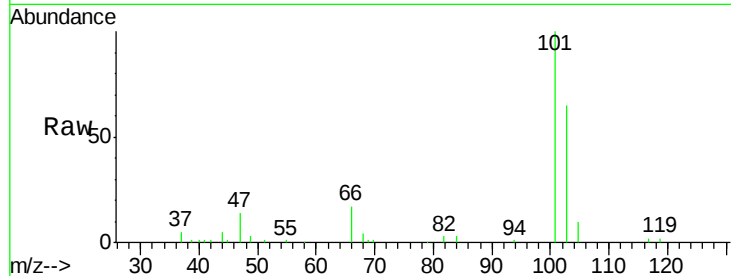
Trichlorofluoromethane
 Concen: 18.405 ug/l
 RT: 2.48 min Scan# 148
 Delta R.T. -0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	155094		
103	64.8	51.3	76.9	

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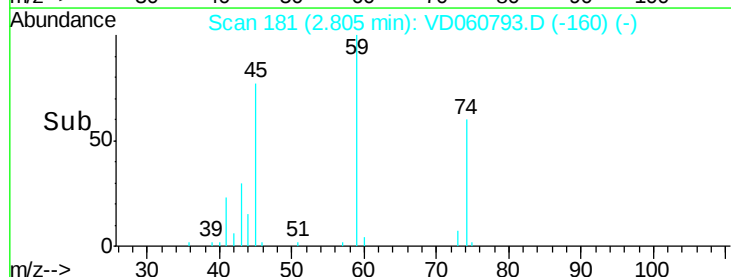
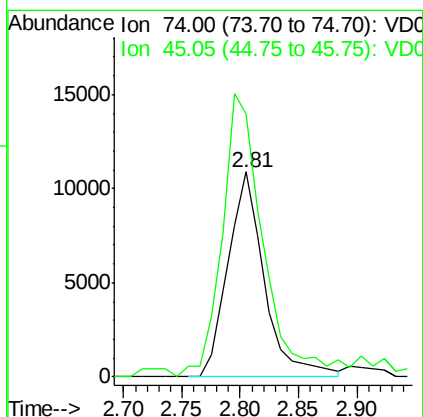
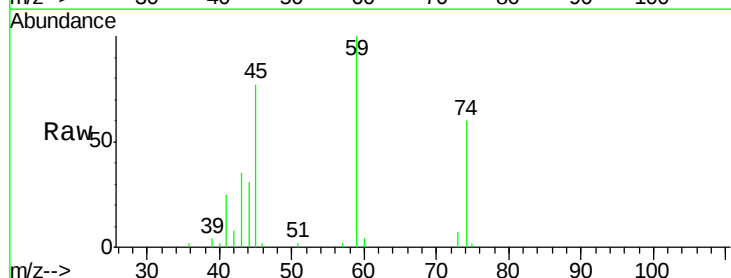
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 1/29/2019 4:55:36 PM

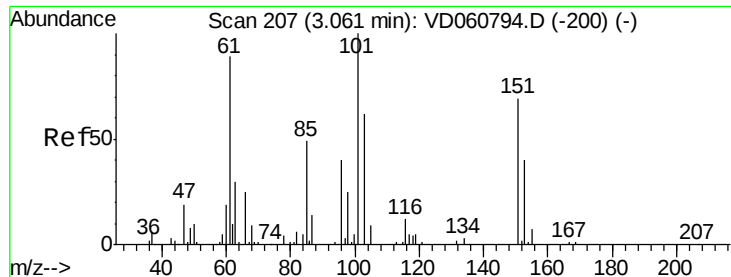


#8

Diethyl Ether
 Concen: 19.005 ug/l
 RT: 2.81 min Scan# 181
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	23598		
45	128.0	75.6	226.8	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.847 ug/l

RT: 3.06 min Scan# 207

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

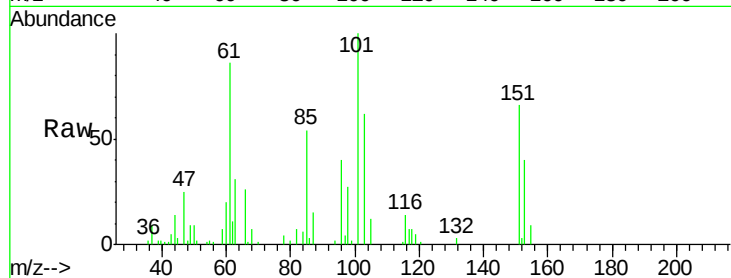
ClientSampleId :

VSTDIC020

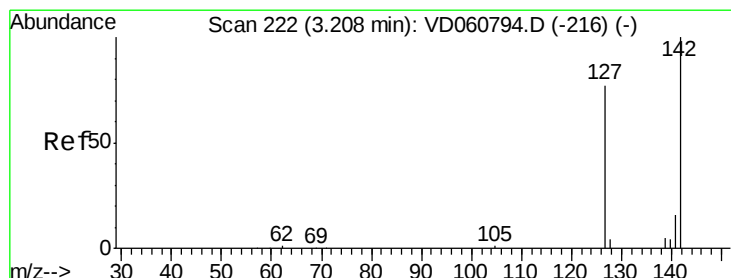
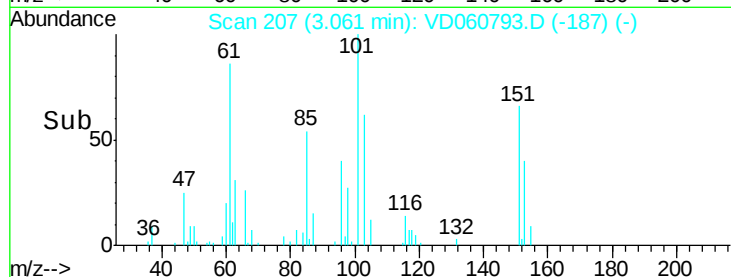
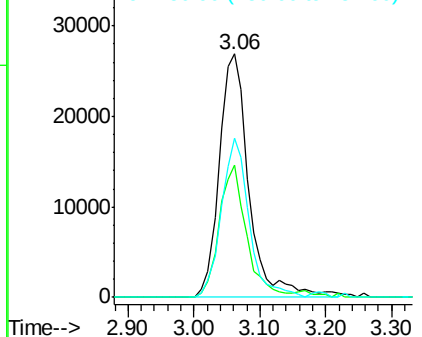
Tot Ion:	101	Resp:	84758
Ion Ratio	Lower	Upper	
101	100		
85	54.3	39.3	58.9
151	65.6	55.1	82.7

Manual Integrations
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Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 19.665 ug/l

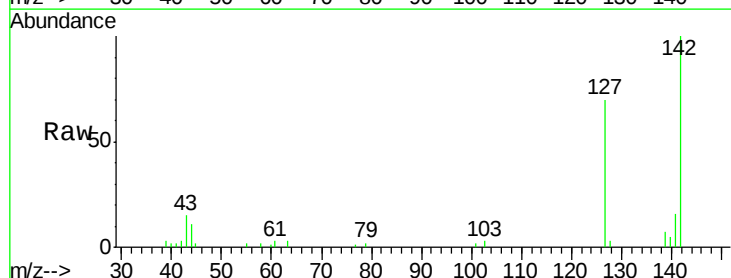
RT: 3.21 min Scan# 222

Delta R.T. 0.00 min

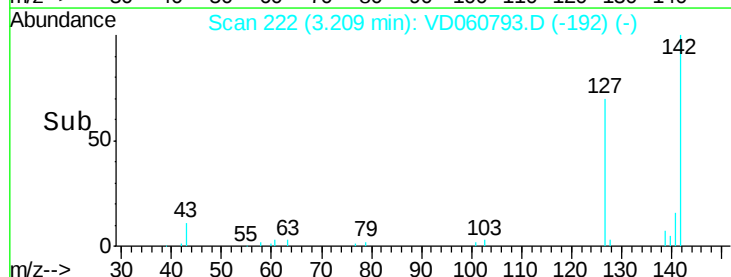
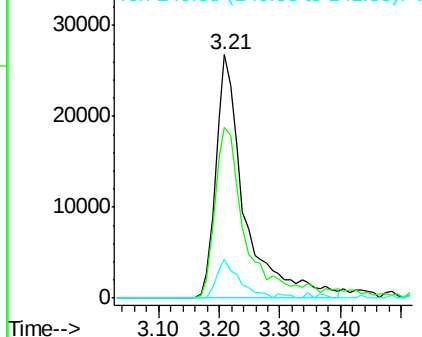
Lab File: VD060793.D

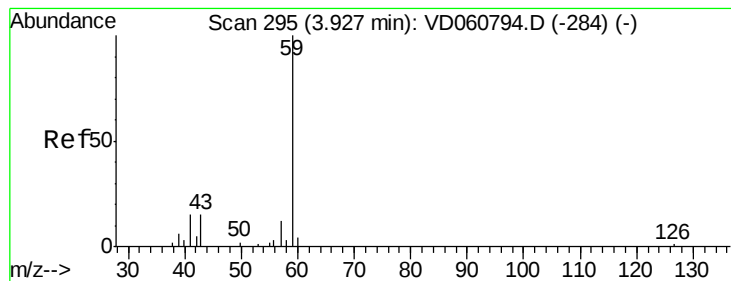
Acq: 28 Jan 2019 16:10

Tgt Ion:	142	Resp:	87925
Ion Ratio	Lower	Upper	
142	100		
127	70.0	61.6	92.4
141	15.8	12.5	18.7



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V





#11

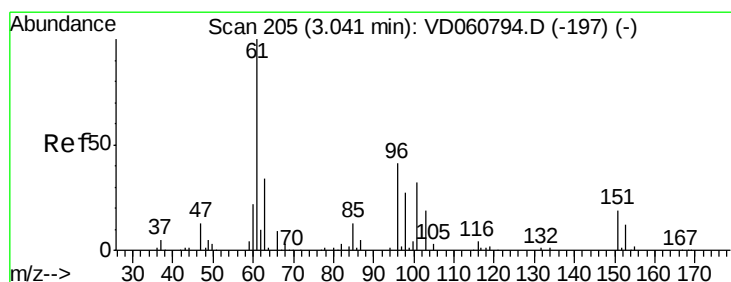
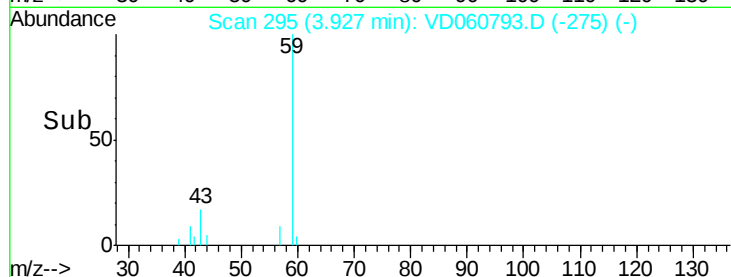
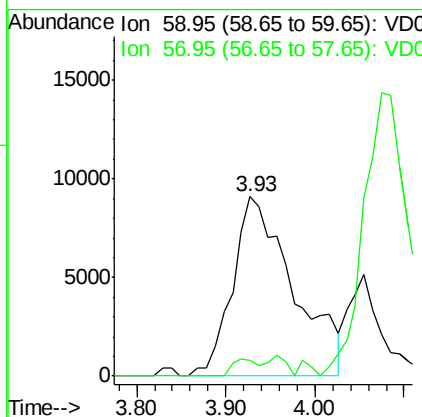
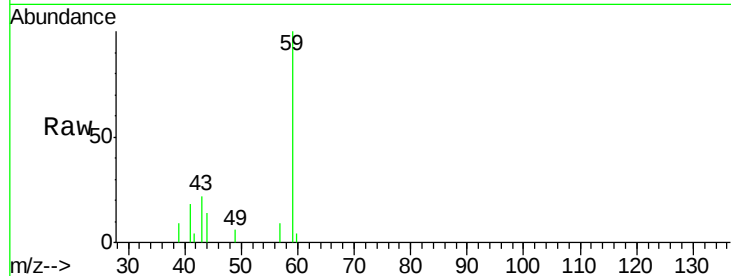
Tert butyl alcohol
 Concen: 106.321 ug/l
 RT: 3.93 min Scan# 295
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.8	9.8	14.6#

Manual Integrations
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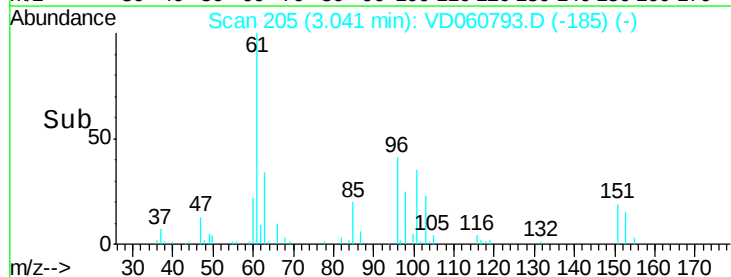
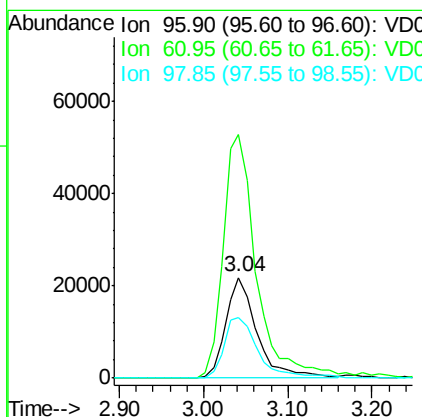
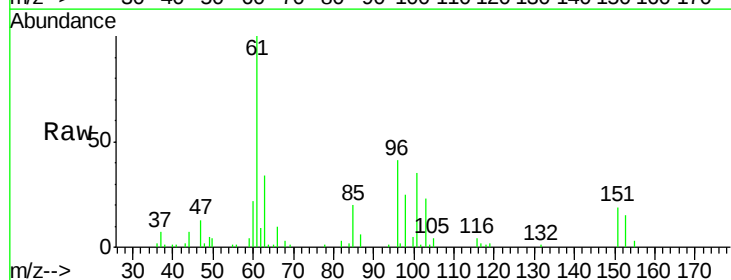
MMDadoda
 1/29/2019 4:55:36 PM

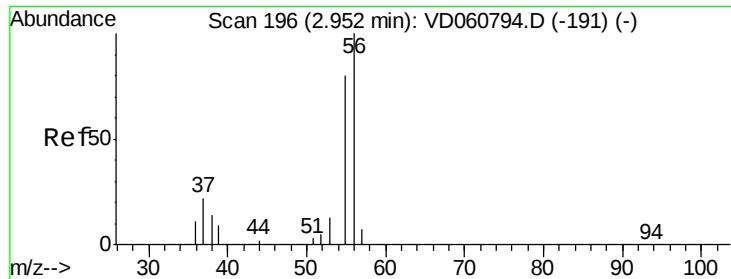


#12

1,1-Dichloroethene
 Concen: 19.298 ug/l
 RT: 3.04 min Scan# 205
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	242.8	195.1	292.7
98	60.3	52.5	78.7





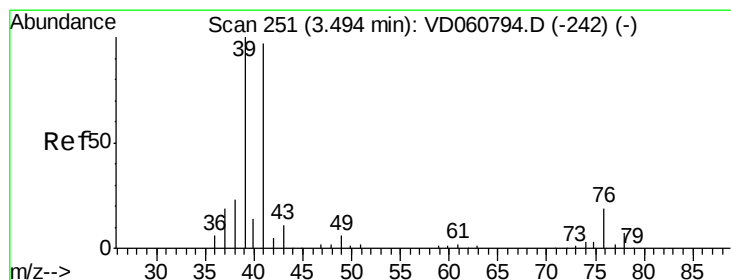
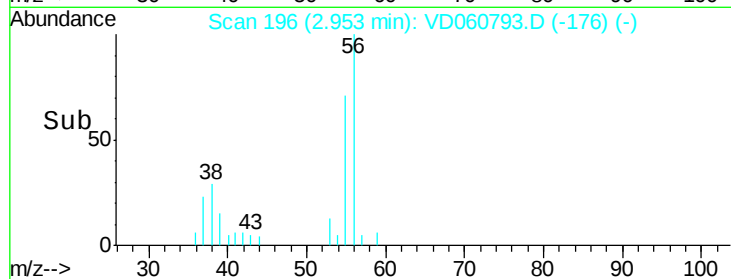
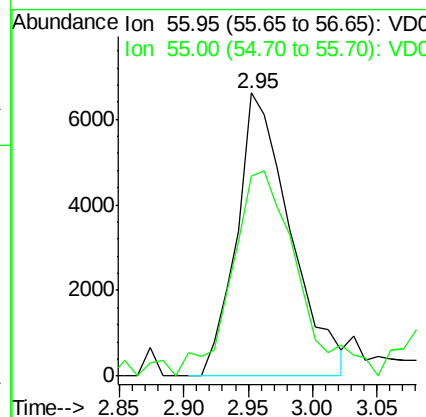
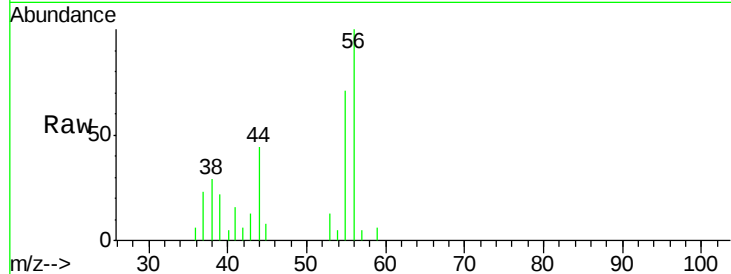
#13
Acrolein
Concen: 116.205 ug/l m
RT: 2.95 min Scan# 196
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	56	Resp	19149
Ion Ratio	100	Lower	Upper
56	100		
55	70.9	64.2	96.2

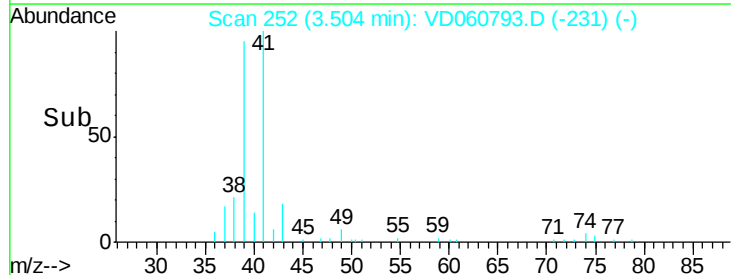
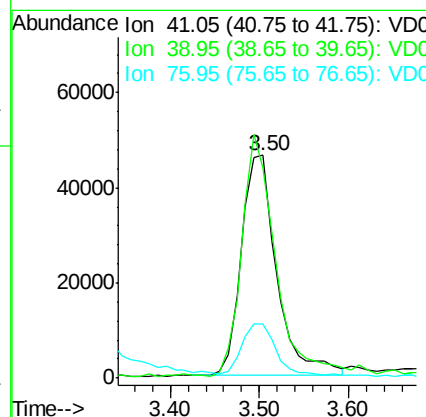
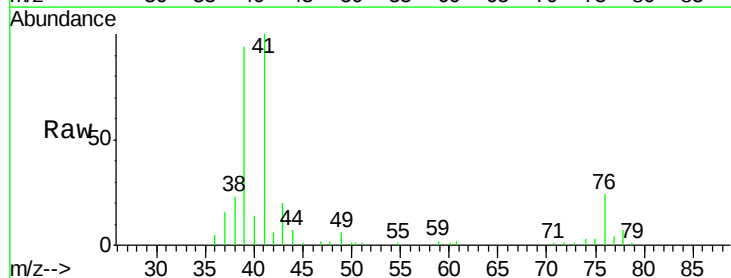
Manual Integrations
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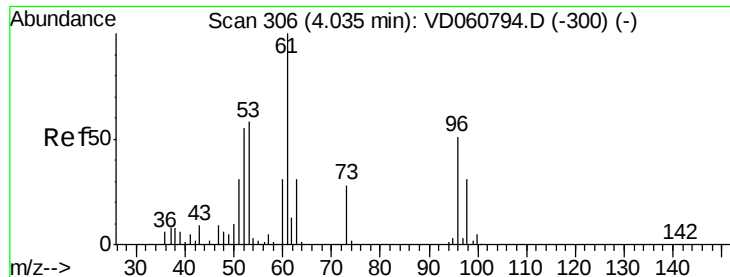
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#14
Allyl chloride
Concen: 18.931 ug/l
RT: 3.50 min Scan# 252
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	41	Resp	128569
Ion Ratio	100	Lower	Upper
41	100		
39	94.0	82.6	123.8
76	24.1	18.9	28.3





#15

Acrylonitrile

Concen: 103.970 ug/l

RT: 4.04 min Scan# 306

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

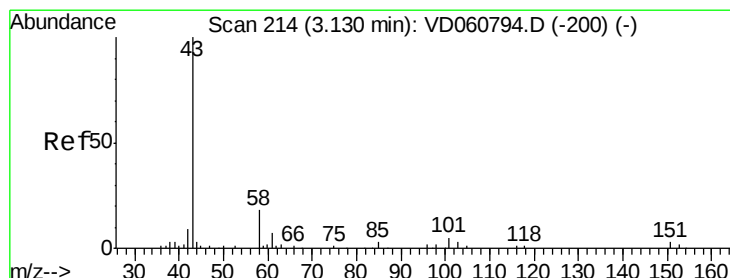
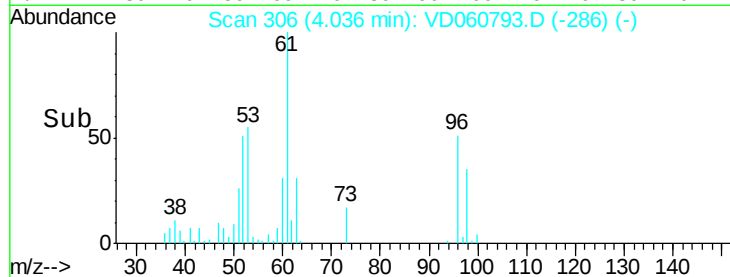
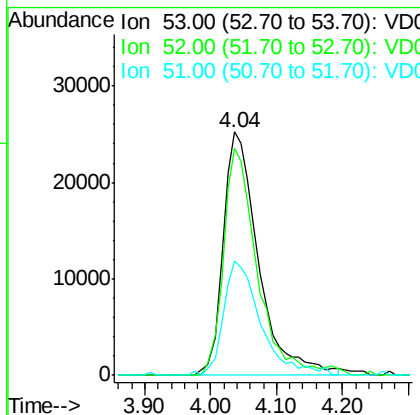
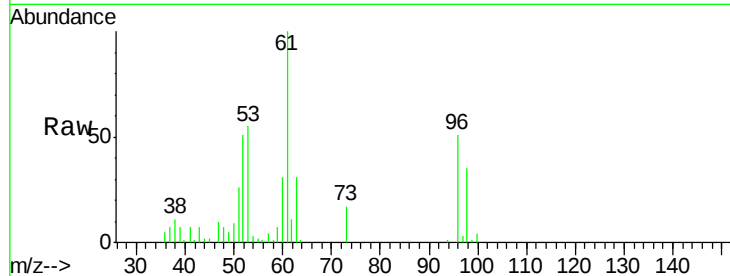
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	94556
Ion	Ratio	Lower	Upper
53	100		
52	93.3	75.4	113.2
51	46.8	42.5	63.7

Manual Integrations
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#16

Acetone

Concen: 90.167 ug/l

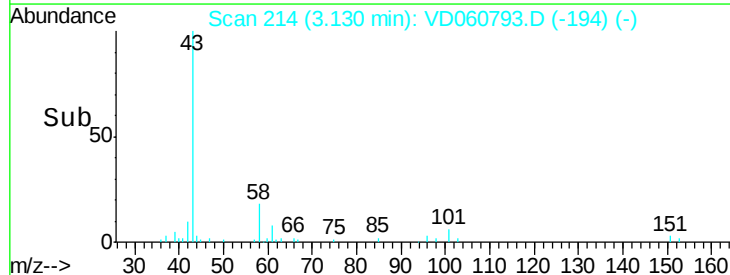
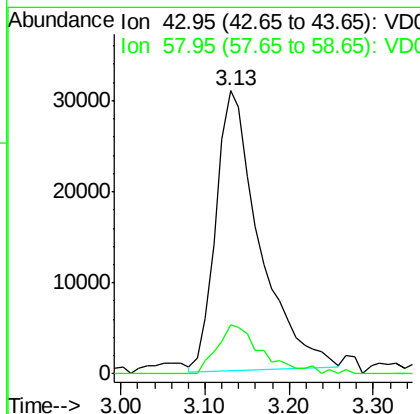
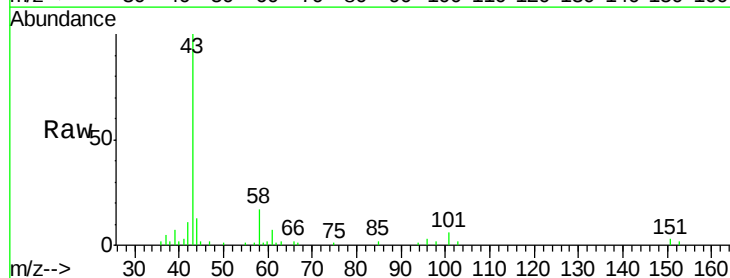
RT: 3.13 min Scan# 214

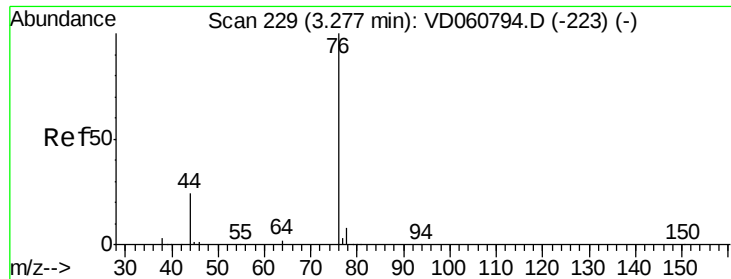
Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Tgt Ion:	43	Resp:	110188
Ion	Ratio	Lower	Upper
43	100		
58	17.4	14.5	21.7





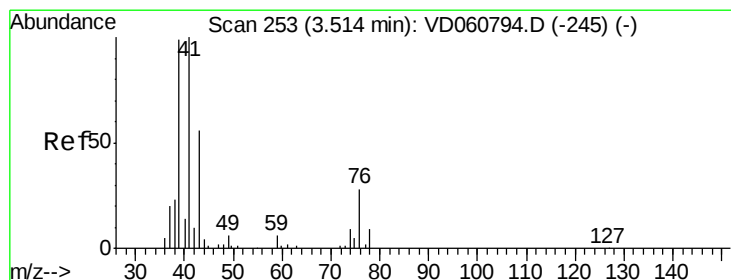
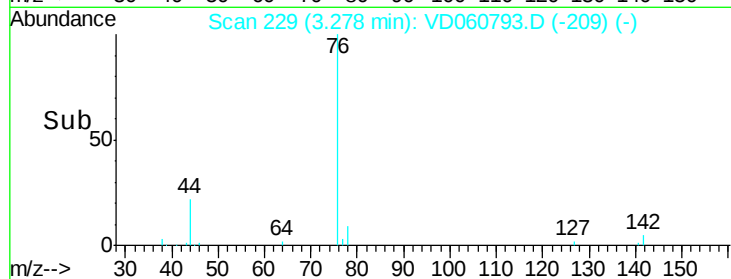
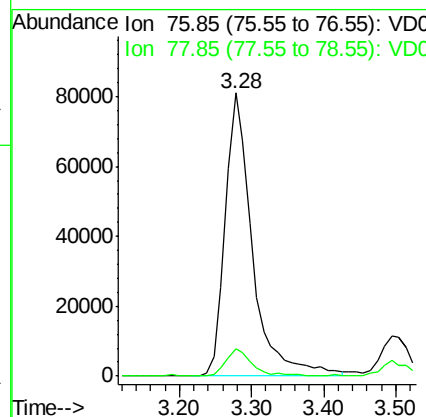
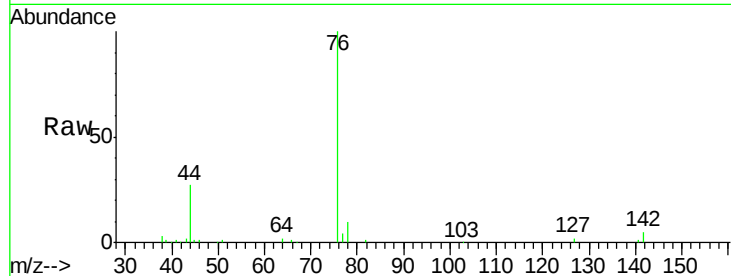
#17
Carbon Disulfide
Concen: 20.473 ug/l
RT: 3.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.5	9.7#

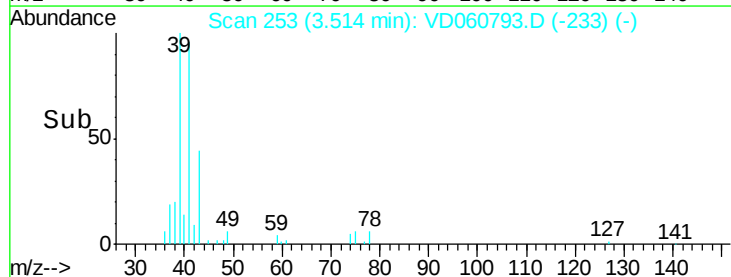
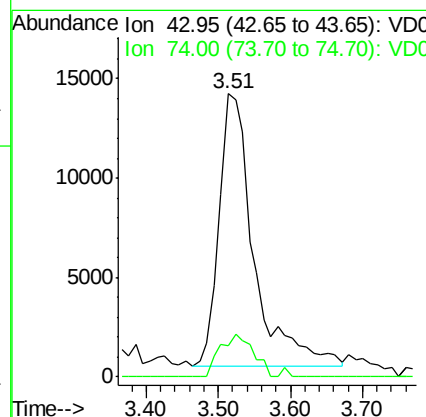
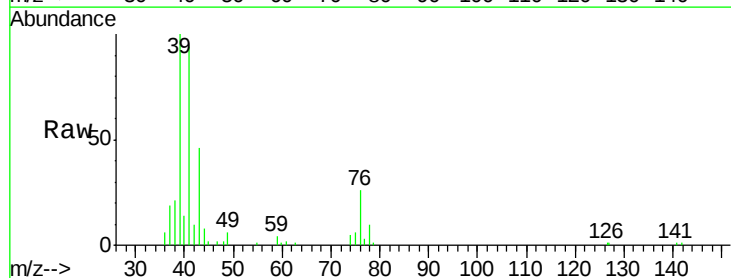
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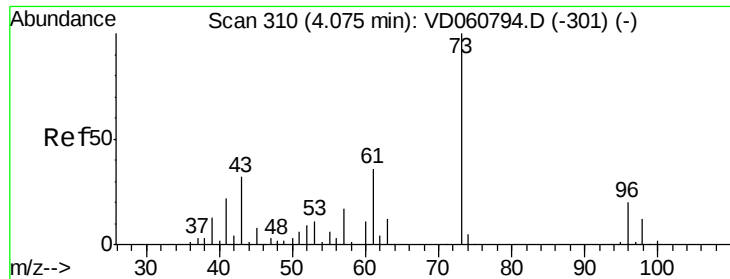
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#18
Methyl Acetate
Concen: 18.836 ug/l
RT: 3.51 min Scan# 253
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
43	100		
74	11.2	12.5	18.7#





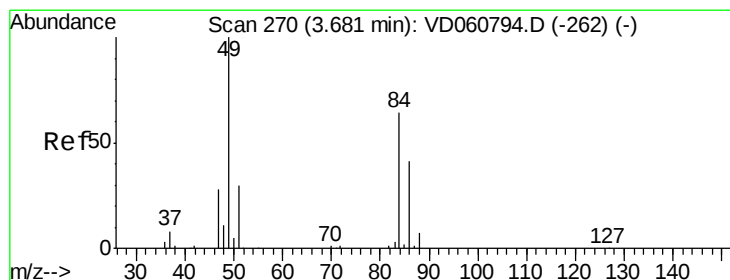
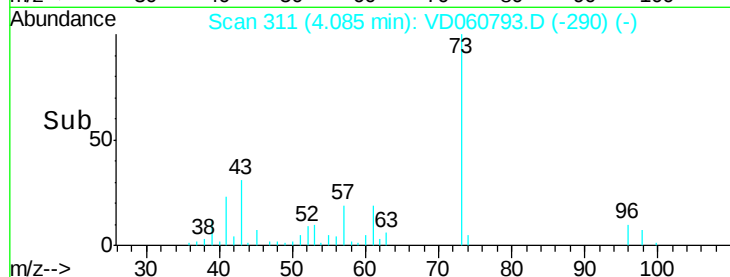
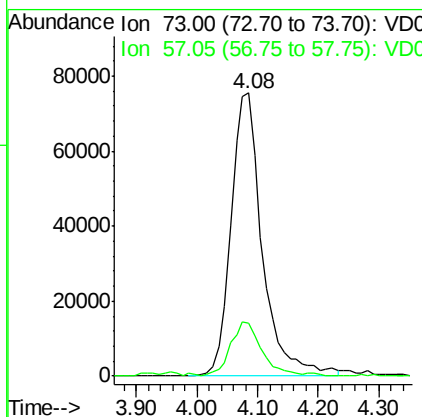
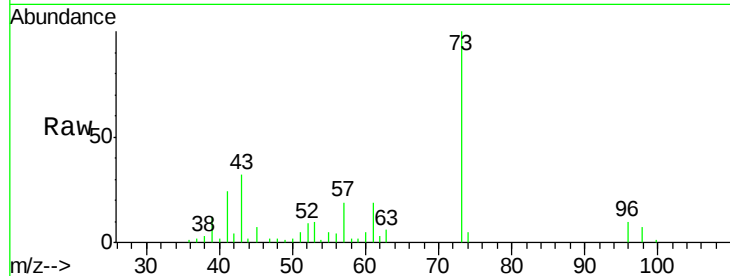
#19
Methvl tert-butvl Ether
Concen: 20.297 ug/l
RT: 4.08 min Scan# 311
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 270425
Ion Ratio Lower Upper
73 100
57 18.9 14.0 21.0

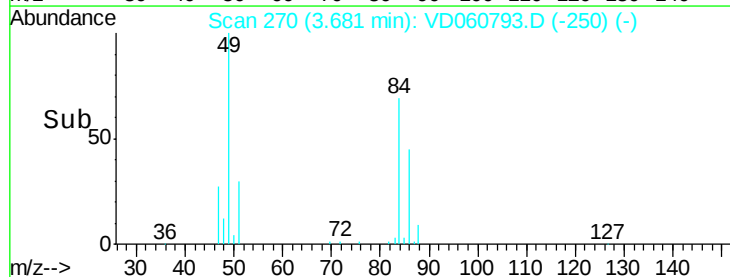
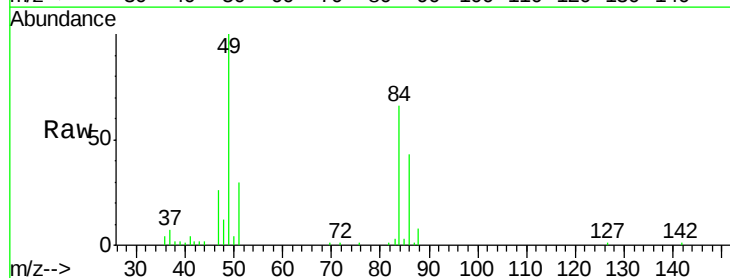
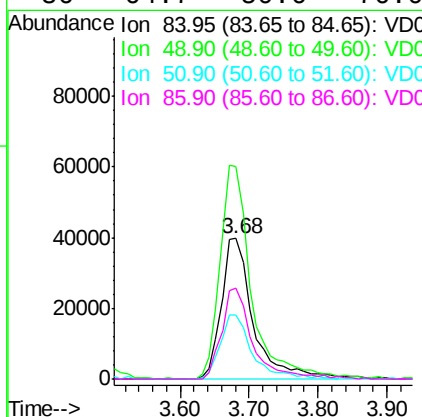
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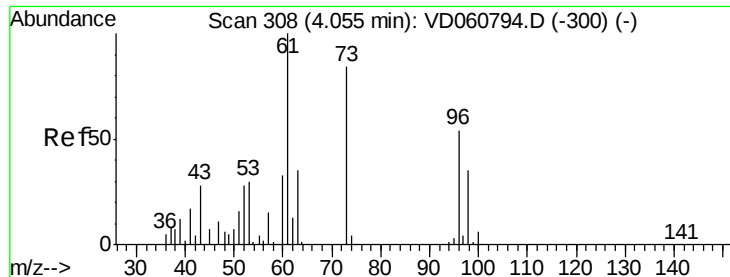
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#20
Methylene Chloride
Concen: 20.379 ug/l
RT: 3.68 min Scan# 270
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion: 84 Resp: 127430
Ion Ratio Lower Upper
84 100
49 150.8 124.2 186.2
51 45.5 38.1 57.1
86 64.7 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 21.455 ug/l

RT: 4.06 min Scan# 308

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 110376

Ion Ratio Lower Upper

96 100

61 172.6 147.4 221.2

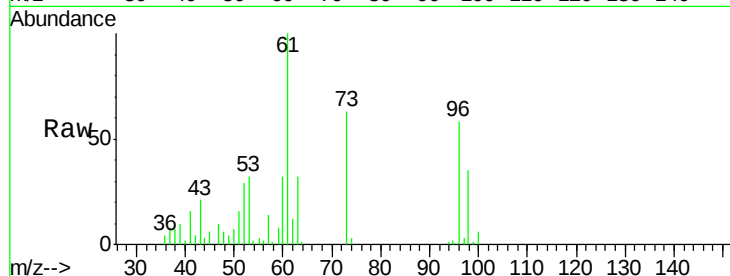
98 61.2 51.5 77.3

Manual Integrations

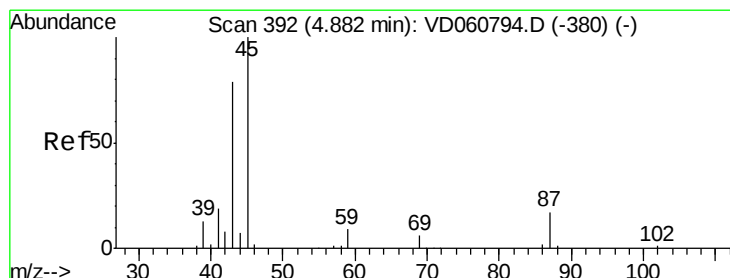
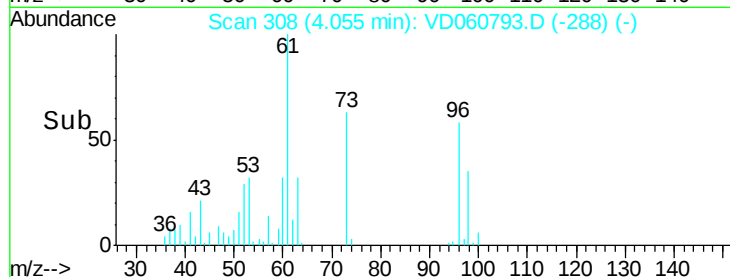
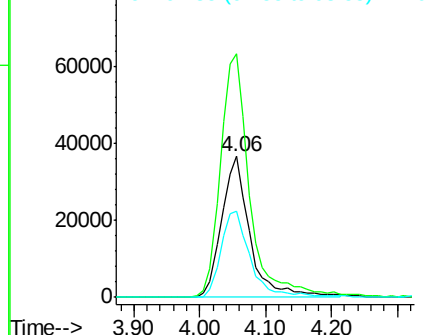
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Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 20.067 ug/l

RT: 4.89 min Scan# 393

Delta R.T. 0.01 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Tgt Ion: 45 Resp: 351191

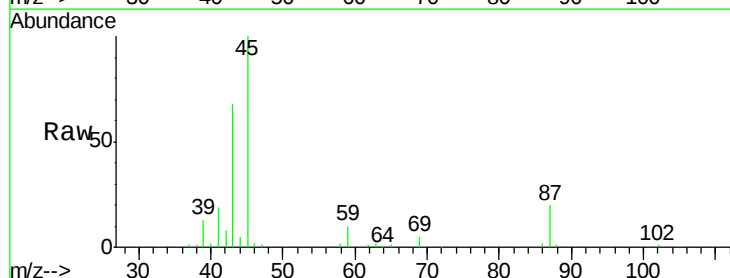
Ion Ratio Lower Upper

45 100

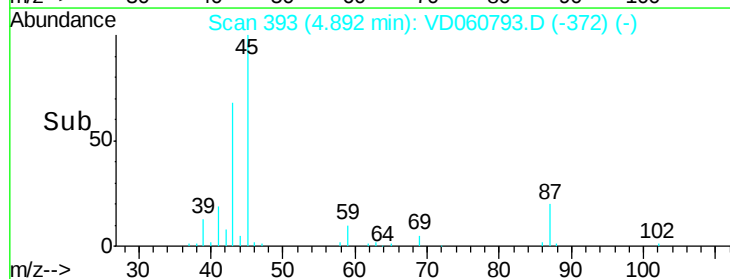
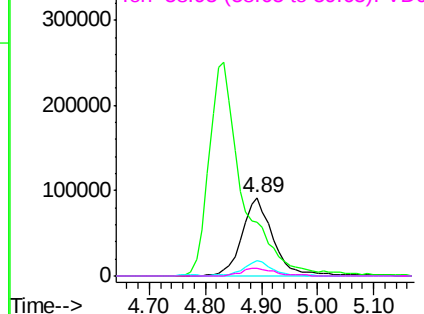
43 68.1 64.3 96.5

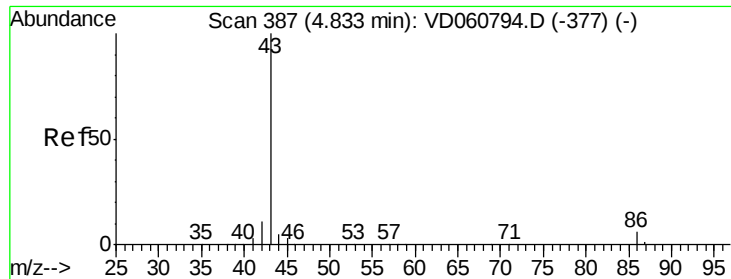
87 19.5 14.3 21.5

59 9.9 7.8 11.8



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





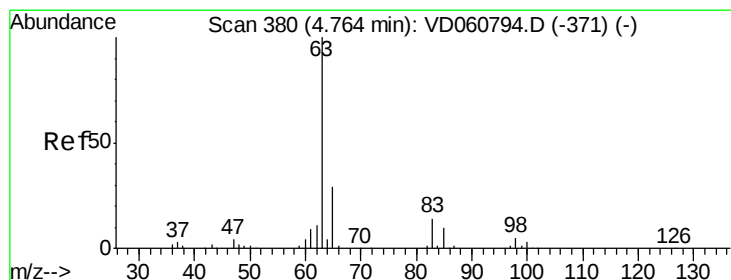
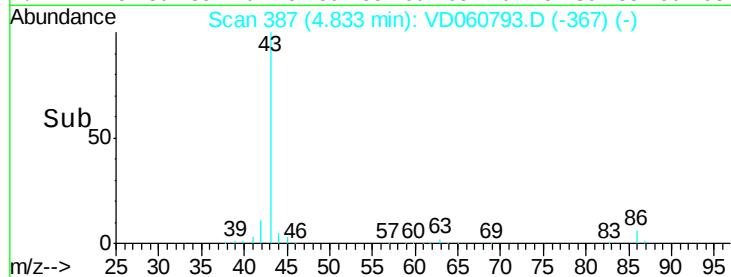
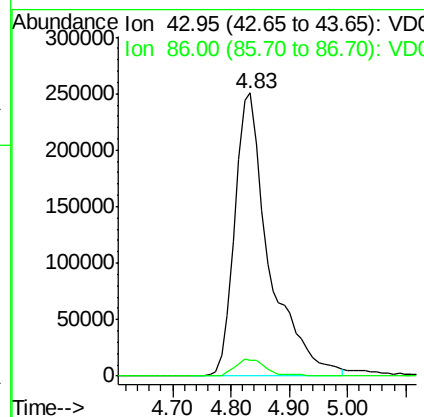
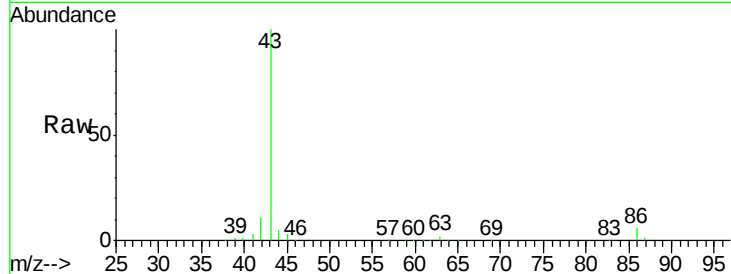
#23
 Vinyl Acetate
 Concen: 102.541 ug/l
 RT: 4.83 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC020

Tot Ion: 43 Resp: 1033415
 Ion Ratio Lower Upper
 43 100
 86 5.7 4.7 7.1

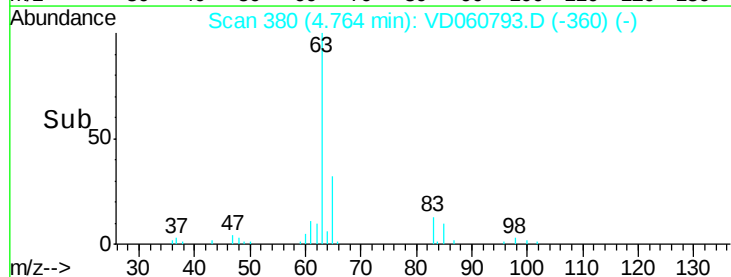
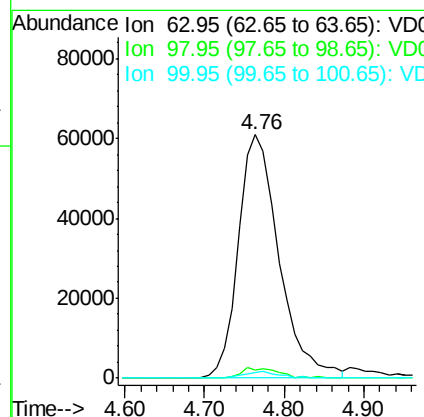
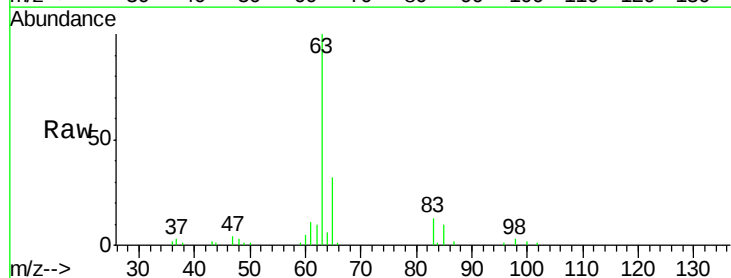
Manual Integrations
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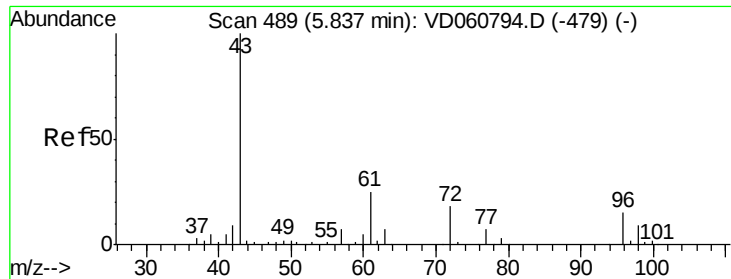
MMDadoda
 1/29/2019 4:55:36 PM



#24
 1,1-Dichloroethane
 Concen: 18.844 ug/l
 RT: 4.76 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion: 63 Resp: 215895
 Ion Ratio Lower Upper
 63 100
 98 3.1 2.3 6.9
 100 2.4 1.3 3.8





#25

2-Butanone

Concen: 93.695 ug/l

RT: 5.84 min Scan# 489

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 147117

Ion Ratio Lower Upper

43 100

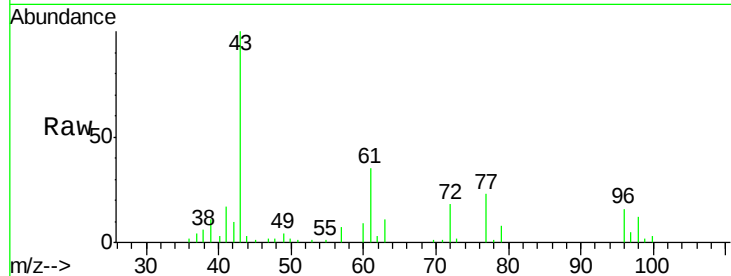
72 18.5 14.4 21.6

Manual Integrations

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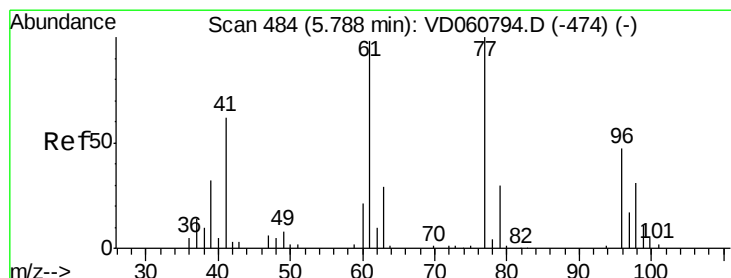
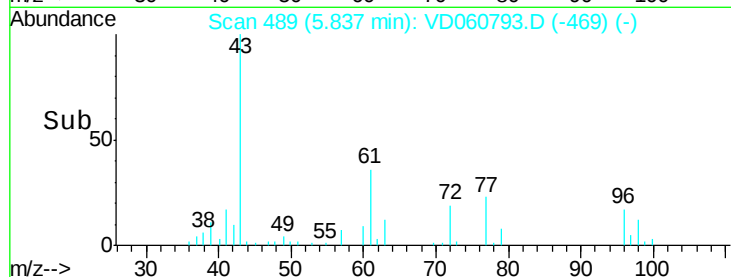
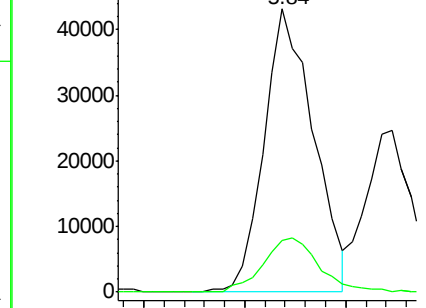
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.713 ug/l

RT: 5.79 min Scan# 484

Delta R.T. 0.00 min

Lab File: VD060793.D

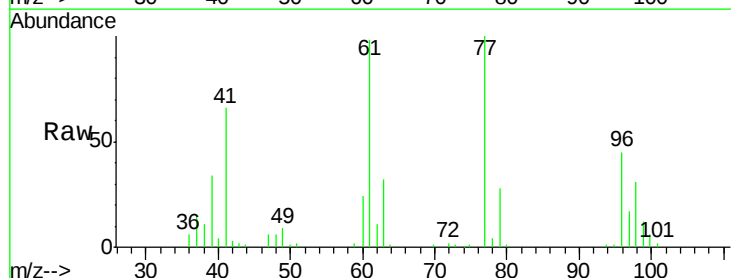
Acq: 28 Jan 2019 16:10

Tgt Ion: 77 Resp: 237968

Ion Ratio Lower Upper

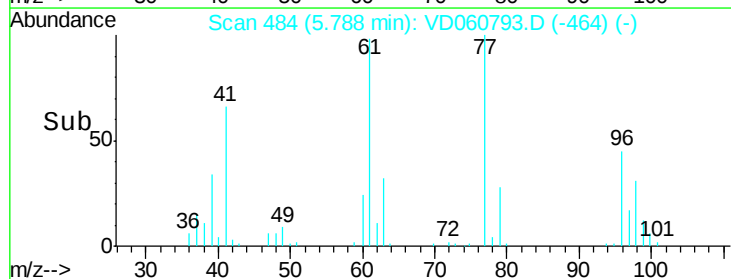
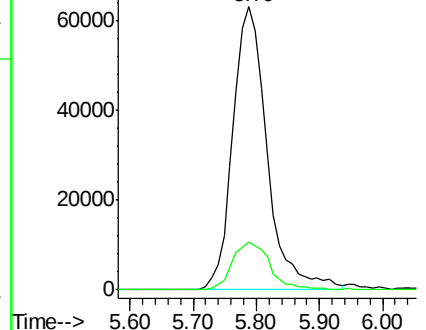
77 100

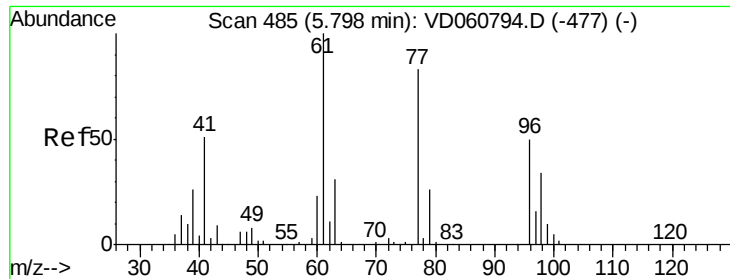
97 16.9 8.3 24.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

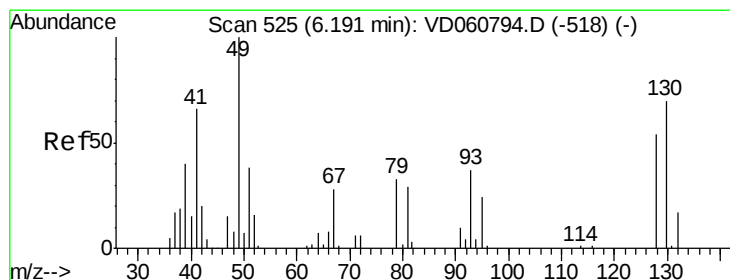
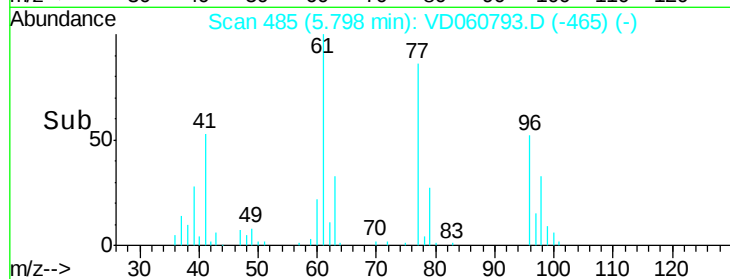
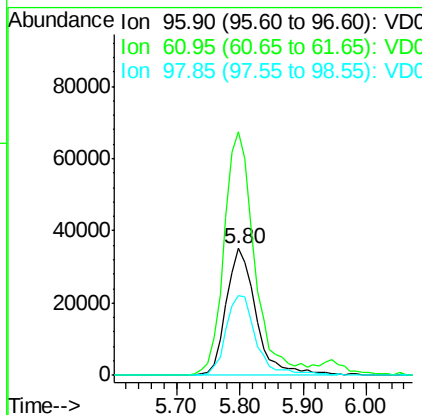
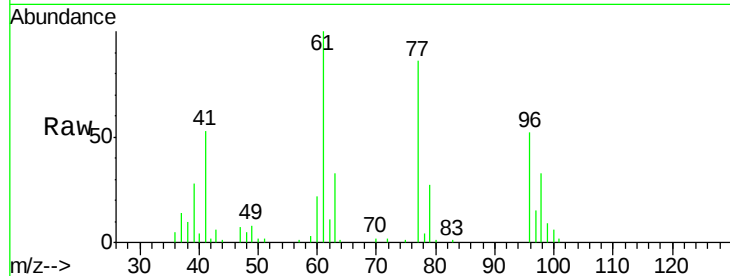
cis-1,2-Dichloroethene
Concen: 19.770 ug/l
RT: 5.80 min Scan# 485
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	191.7	0.0	400.0	
98	62.7	0.0	136.4	

Manual Integrations
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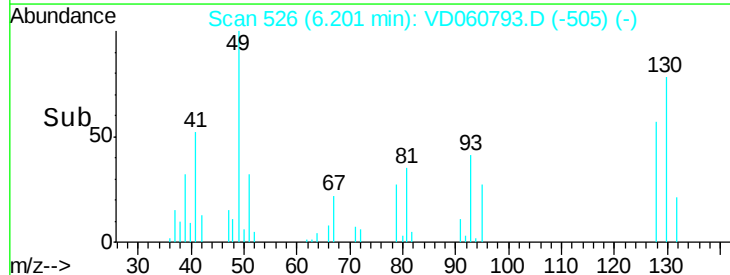
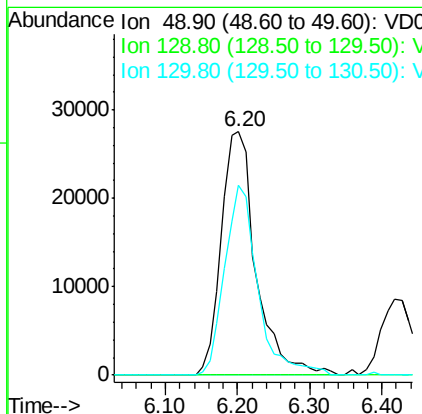
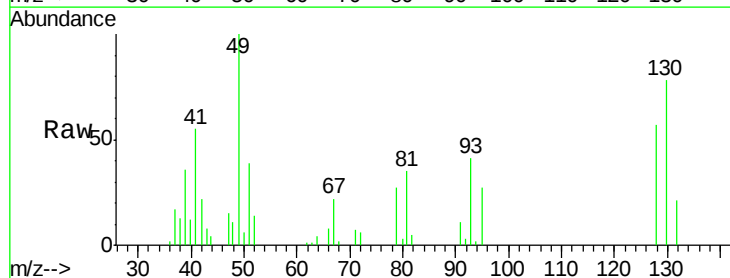
MMDadoda
1/29/2019 4:55:36 PM

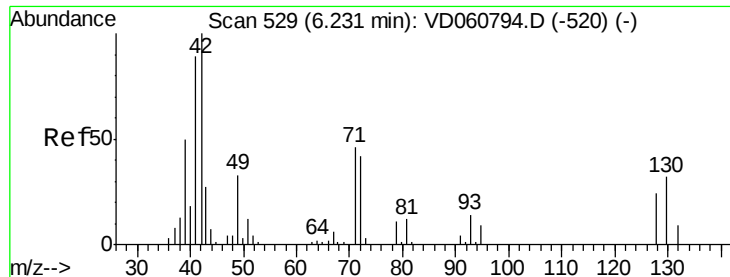


#28

Bromochloromethane
Concen: 20.537 ug/l
RT: 6.20 min Scan# 526
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.0	0.0	0.0	
130	78.2	56.1	84.1	





#29

Tetrahydrofuran

Concen: 97.836 ug/l

RT: 6.23 min Scan# 529

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

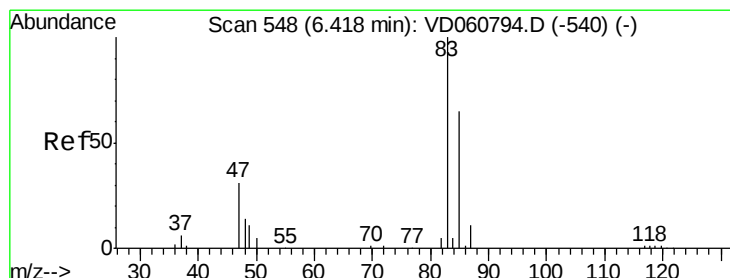
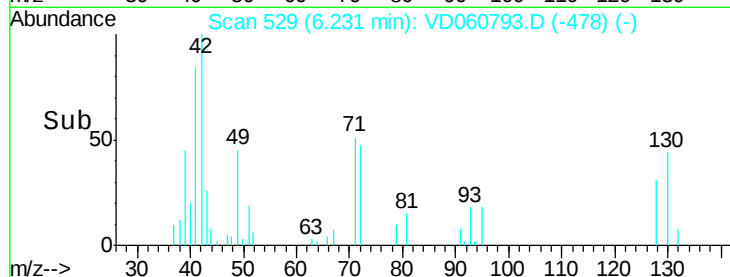
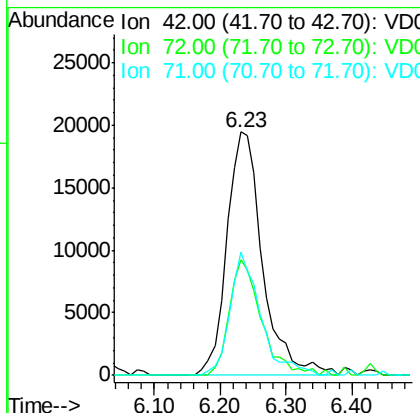
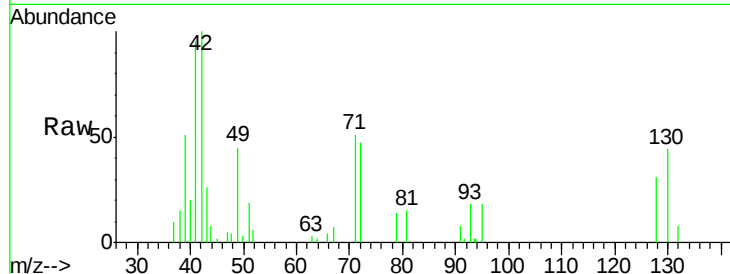
ClientSampled :

VSTDIC020

Tot Ion:	42	Resp:	73771
Ion	Ratio	Lower	Upper
42	100		
72	42.8	32.8	49.2
71	43.6	34.6	52.0

Manual Integrations
APPROVED

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#30

Chloroform

Concen: 19.574 ug/l

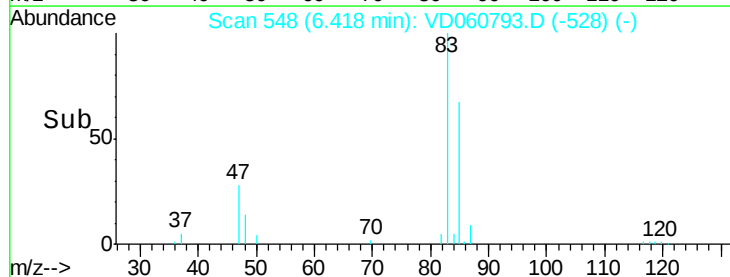
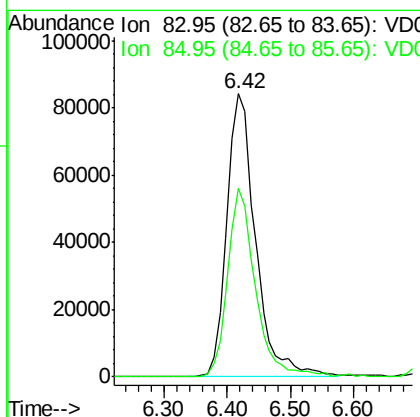
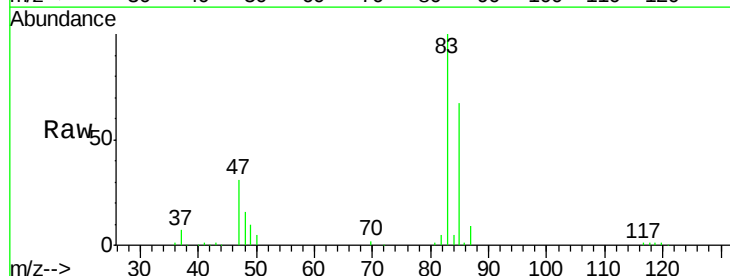
RT: 6.42 min Scan# 548

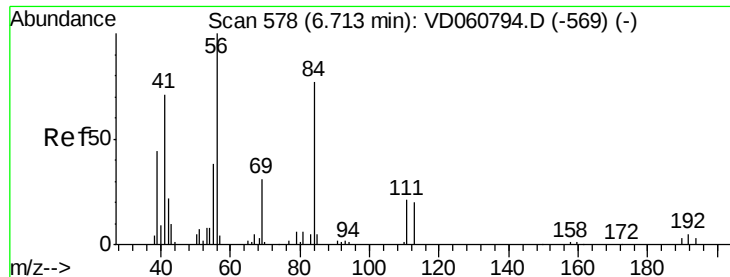
Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Tgt Ion:	83	Resp:	265058
Ion	Ratio	Lower	Upper
83	100		
85	66.8	52.3	78.5





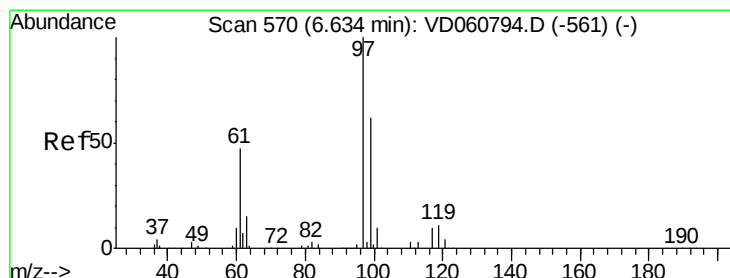
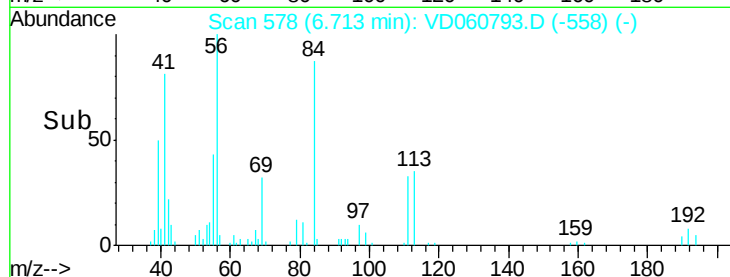
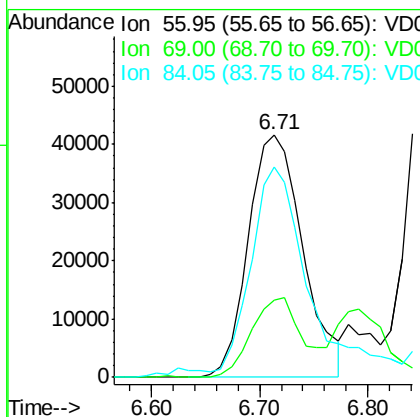
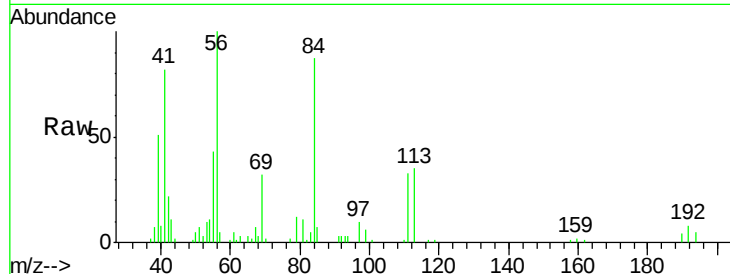
#31
Cyclohexane
Concen: 18.842 ug/l
RT: 6.71 min Scan# 578
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.1	25.1	37.7
84	86.6	63.9	95.9

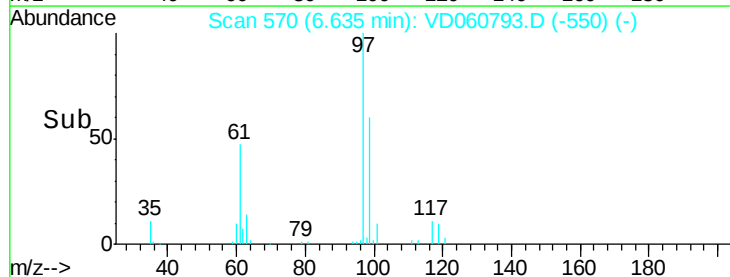
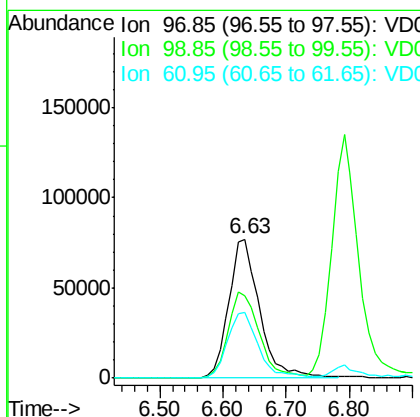
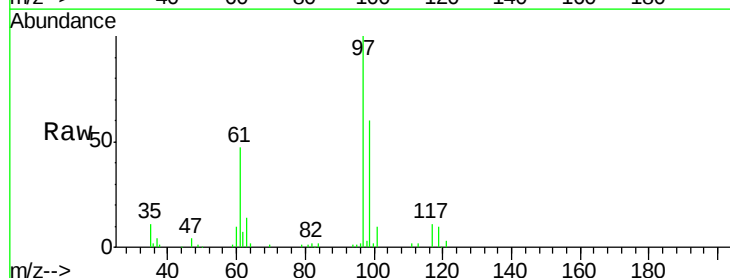
Manual Integrations
APPROVED

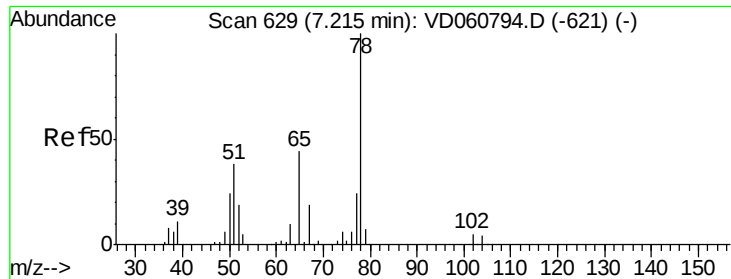
MMDadoda
1/29/2019 4:55:36 PM



#32
1,1,1-Trichloroethane
Concen: 19.952 ug/l
RT: 6.63 min Scan# 570
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.6	49.6	74.4
61	47.2	37.4	56.2





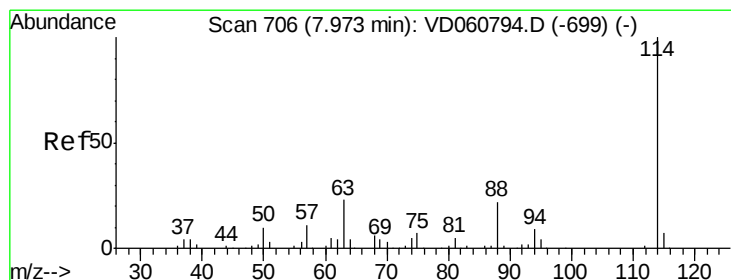
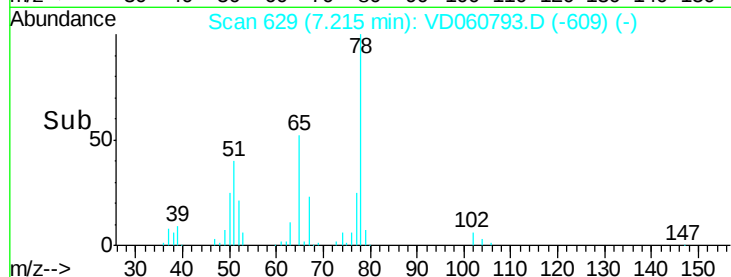
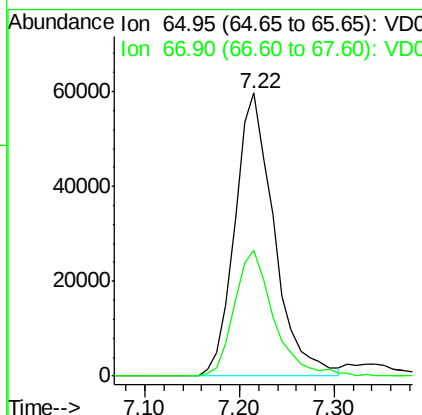
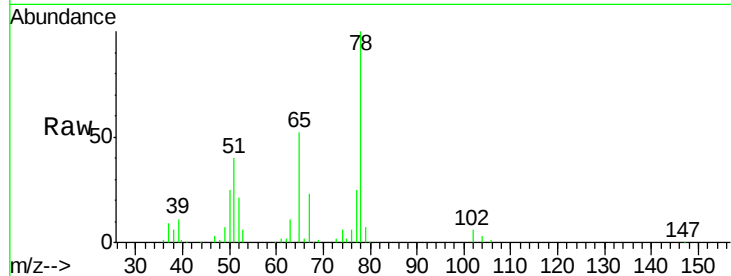
#33
 1,2-Dichloroethane-d4
 Concen: 19.952 ug/l
 RT: 7.22 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	171224		
67	44.4	0.0	85.8	

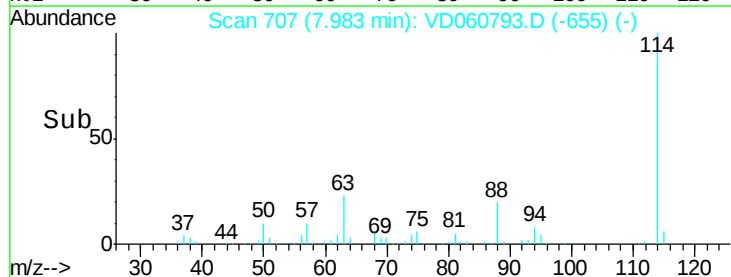
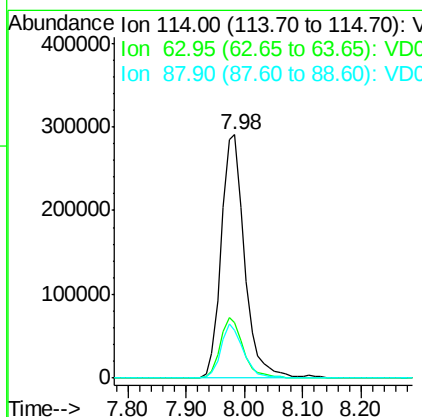
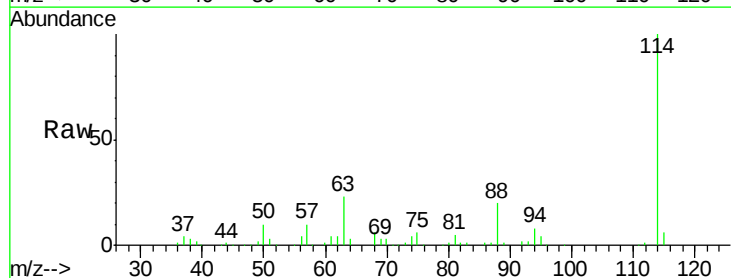
Manual Integrations
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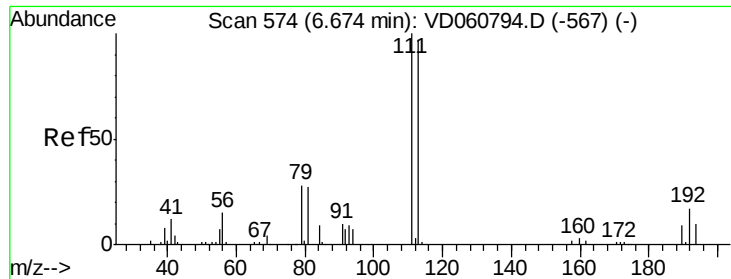
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.98 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	809151		
63	22.9	0.0	46.6	
88	19.7	0.0	44.0	





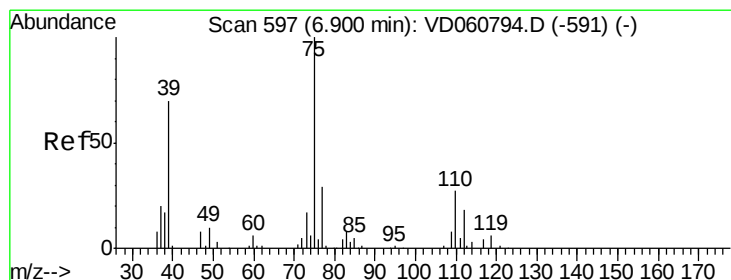
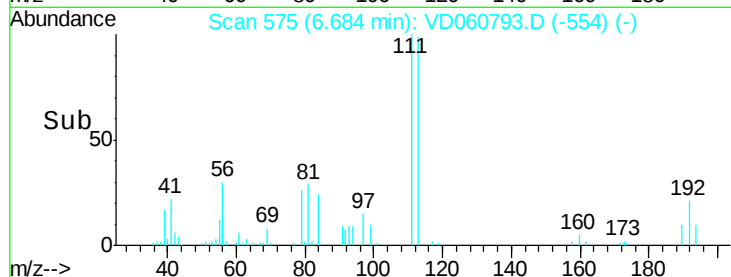
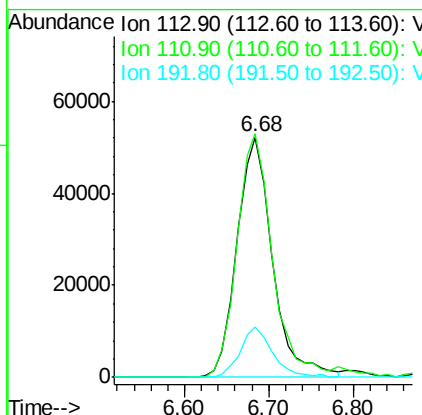
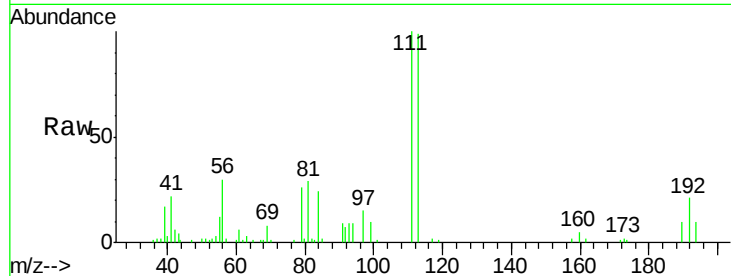
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 575
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	153603		
111	101.4	82.3	123.5	
192	20.8	14.4	21.6	

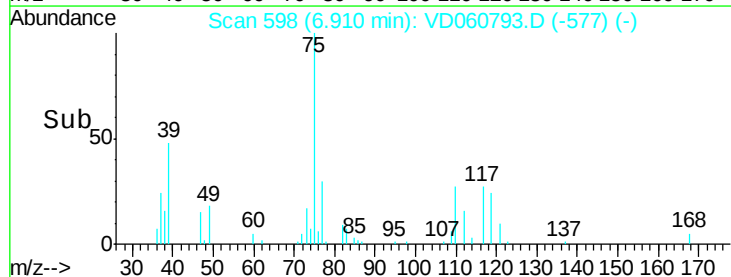
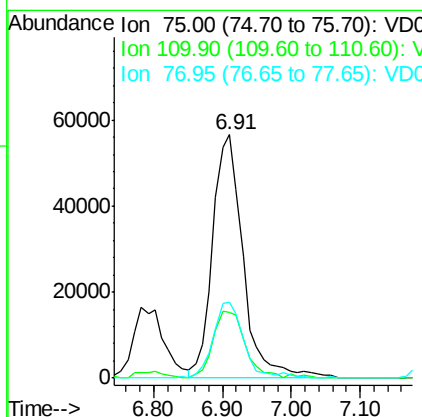
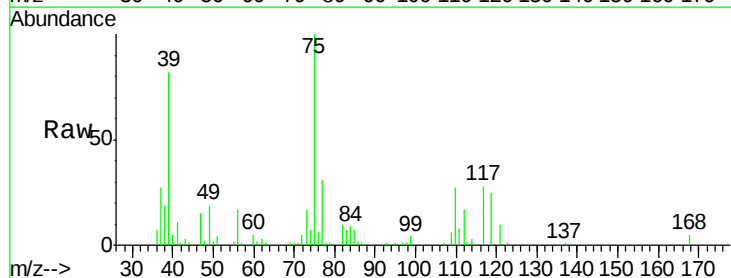
Manual Integrations
 APPROVED

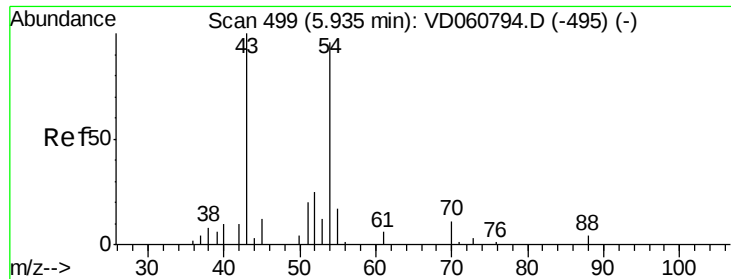
MMDadoda
 1/29/2019 4:55:36 PM



#36
 1,1-Dichloropropene
 Concen: 18.024 ug/l
 RT: 6.91 min Scan# 598
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	174133		
110	26.9	13.5	40.4	
77	31.1	23.4	35.2	





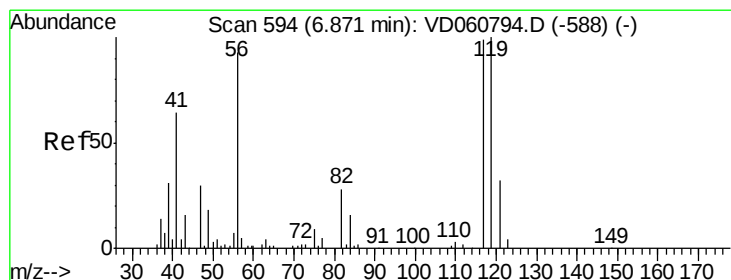
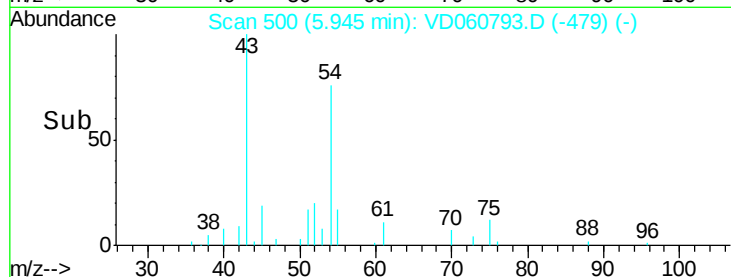
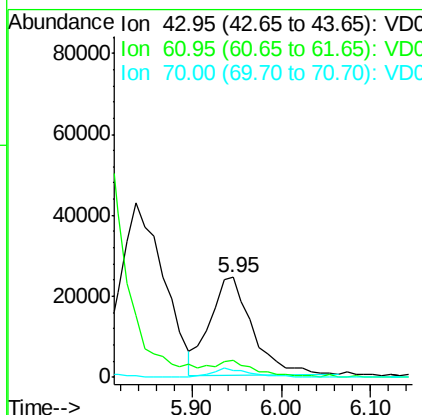
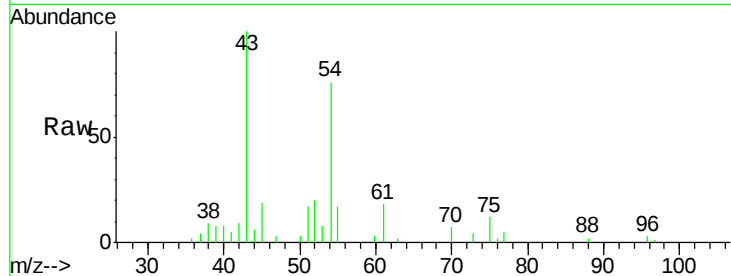
#37
Ethyl Acetate
Concen: 18.765 ug/l
RT: 5.95 min Scan# 500
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.5	12.3	18.5
70	6.8	7.4	11.0

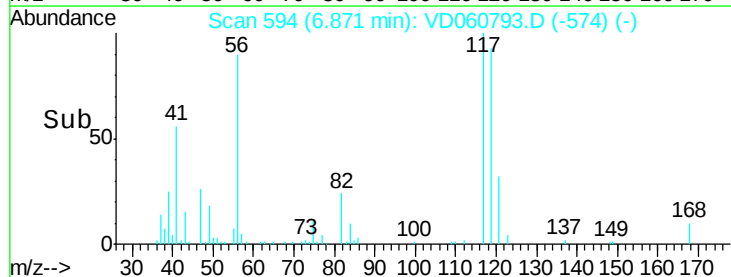
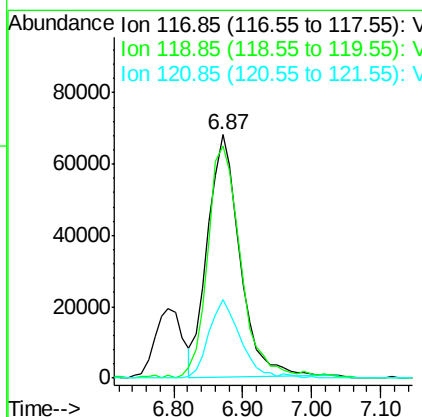
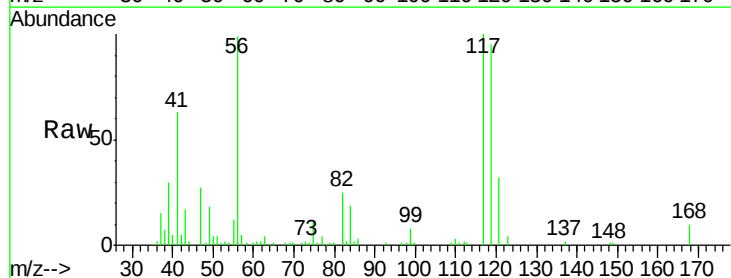
Manual Integrations
APPROVED

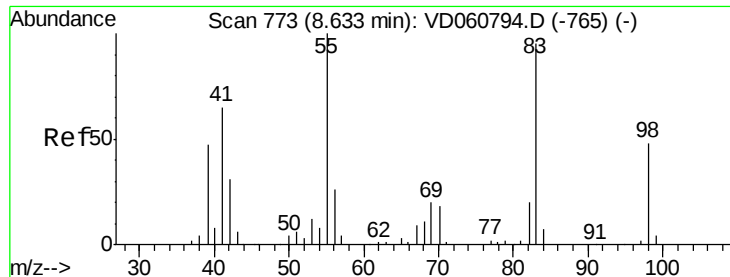
MMDadoda
1/29/2019 4:55:36 PM



#38
Carbon Tetrachloride
Concen: 18.265 ug/l
RT: 6.87 min Scan# 594
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.6	113.4
121	32.3	23.4	35.2





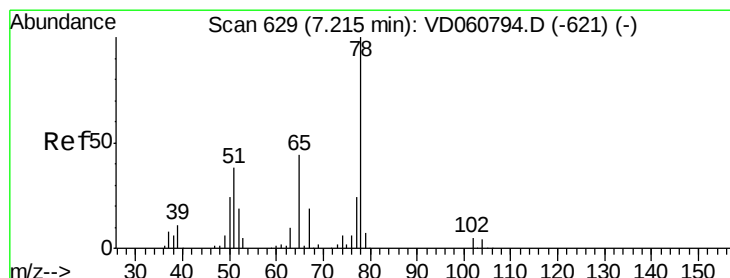
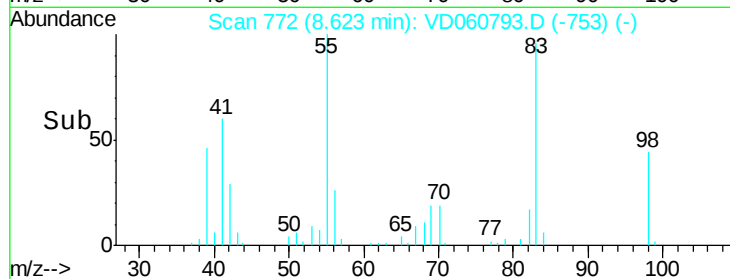
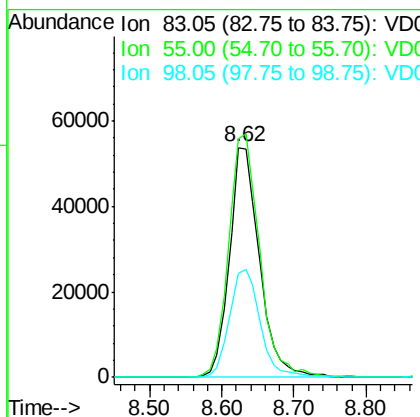
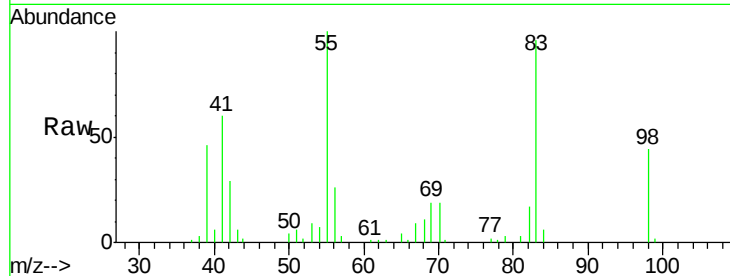
#39
Methvlcvclohexane
Concen: 19.281 ug/l
RT: 8.62 min Scan# 772
Delta R.T. -0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	156000
Ion Ratio	Lower	Upper	
83	100		
55	103.7	83.8	125.8
98	45.6	39.8	59.8

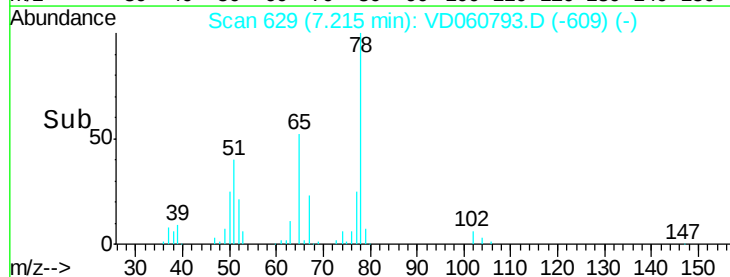
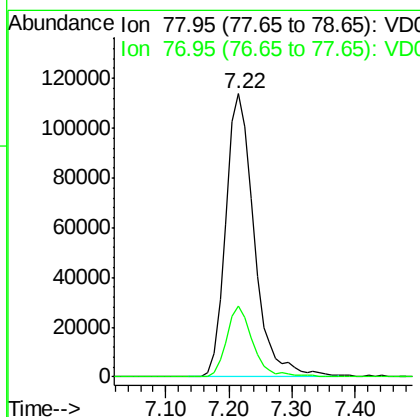
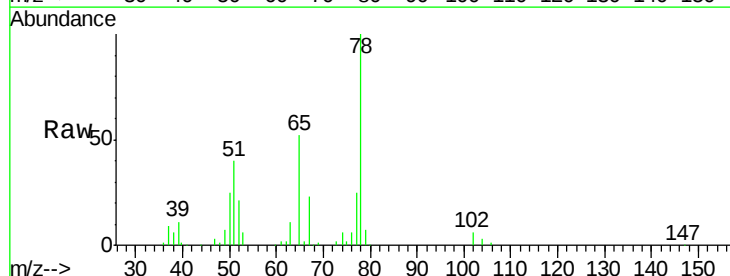
Manual Integrations
APPROVED

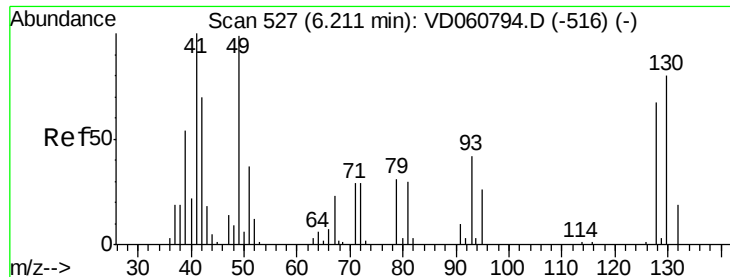
MMDadoda
1/29/2019 4:55:36 PM



#40
Benzene
Concen: 18.582 ug/l
RT: 7.22 min Scan# 629
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	78	Resp	354321
Ion Ratio	Lower	Upper	
78	100		
77	25.0	18.9	28.3





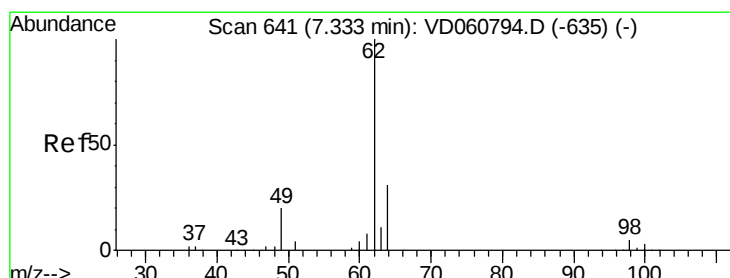
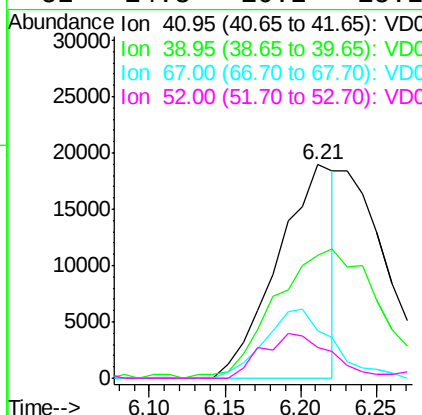
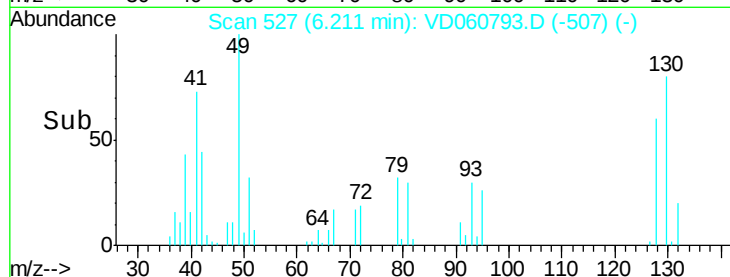
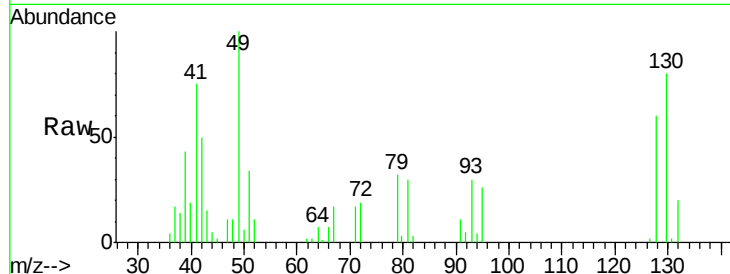
#41
Methacrylonitrile
Concen: 17.941 ug/l m
RT: 6.21 min Scan# 527
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.7	43.6	65.4
67	22.5	18.5	27.7
52	14.3	10.2	15.2

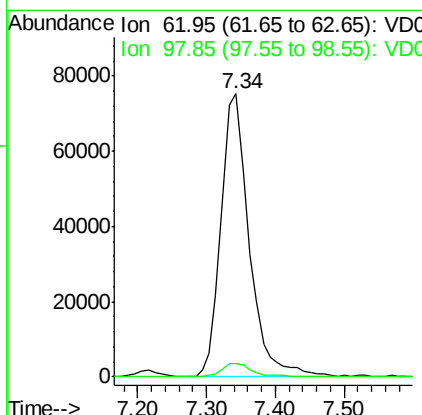
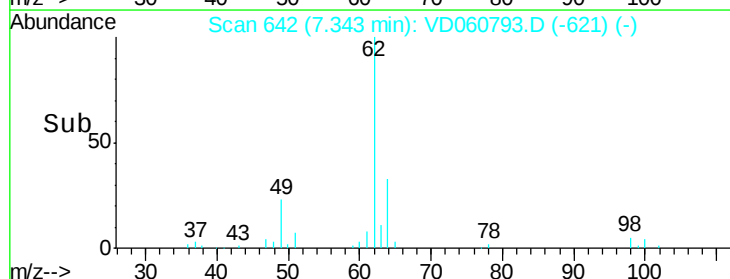
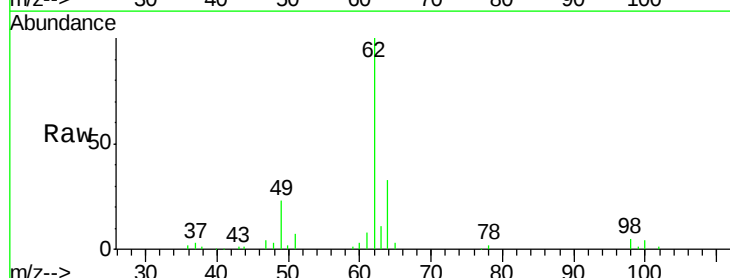
Manual Integrations
APPROVED

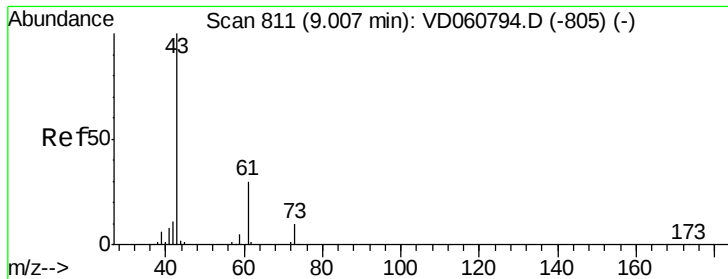
MMDadoda
1/29/2019 4:55:36 PM



#42
1,2-Dichloroethane
Concen: 19.402 ug/l
RT: 7.34 min Scan# 642
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.8	0.0	10.2





#43

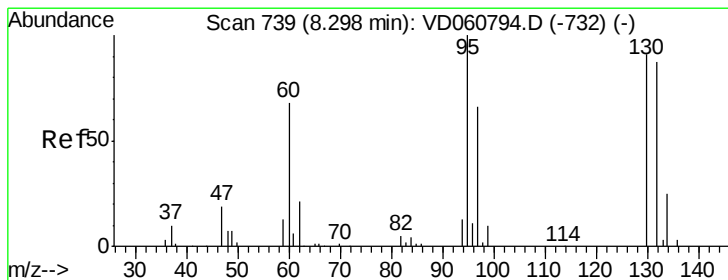
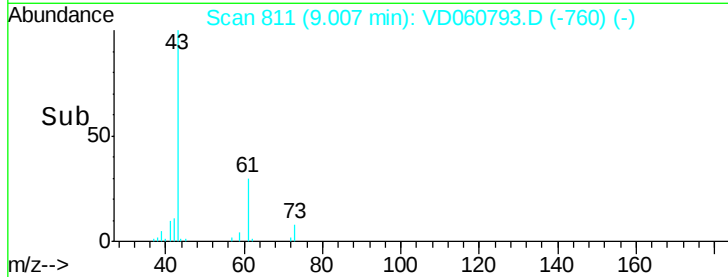
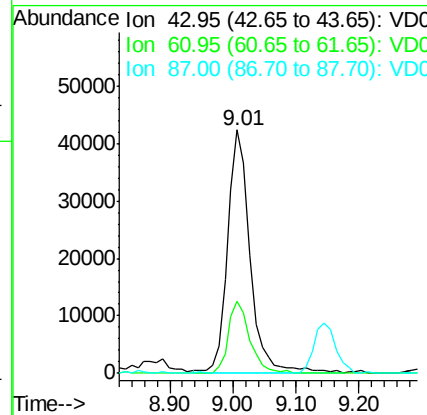
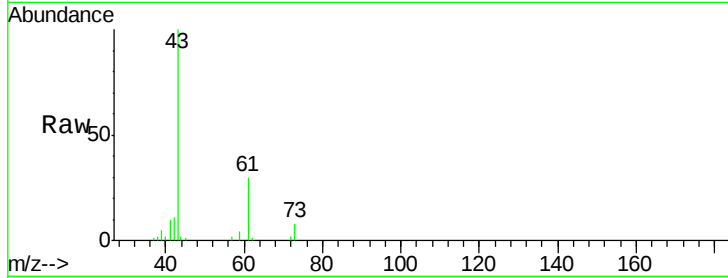
Isopropyl Acetate
 Concen: 18.857 ug/l
 RT: 9.01 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.6	24.1	36.1
87	0.0	0.0	0.0

Manual Integrations
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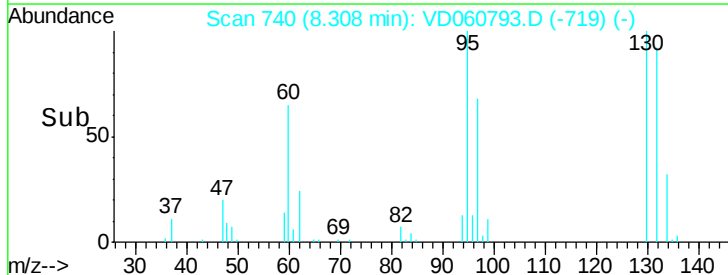
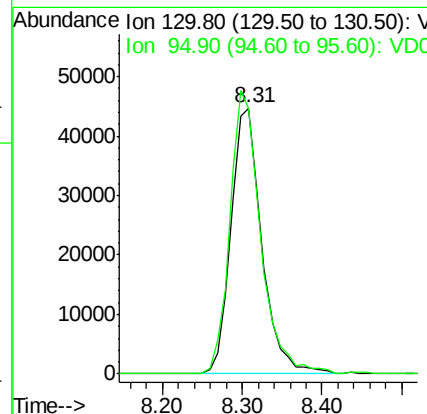
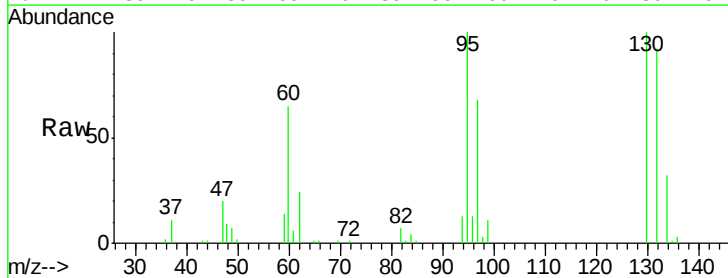
MMDadoda
 1/29/2019 4:55:36 PM

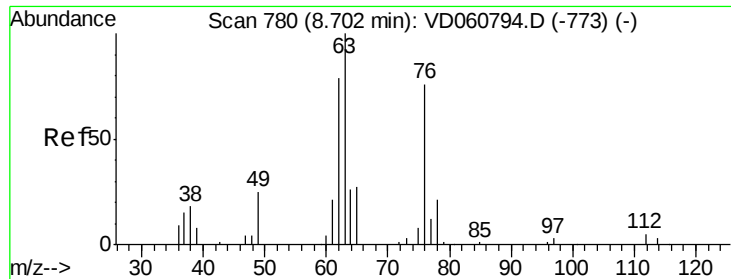


#44

Trichloroethene
 Concen: 18.734 ug/l
 RT: 8.31 min Scan# 740
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	221.0





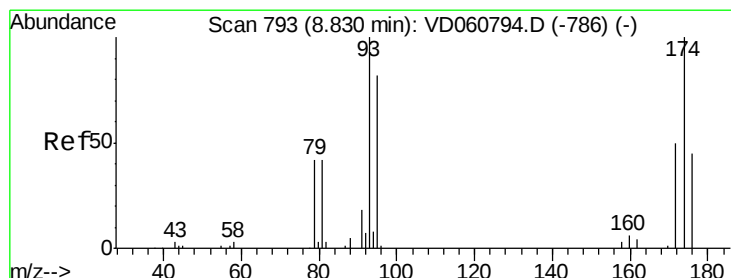
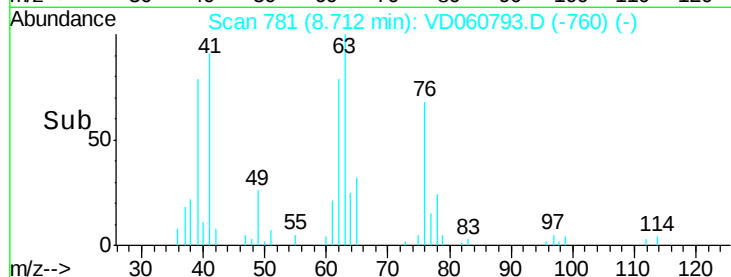
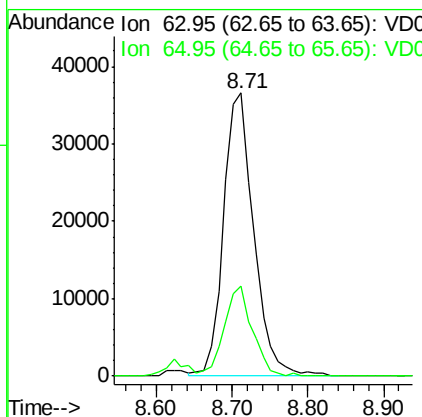
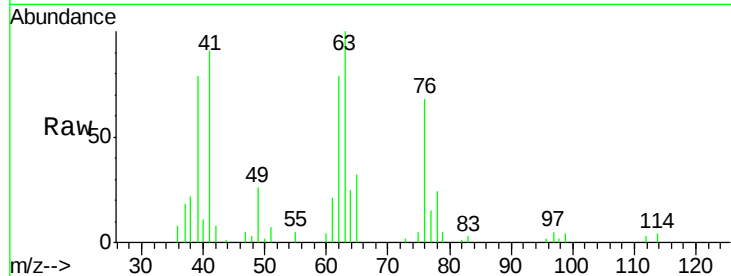
#45
 1,2-Dichloropropane
 Concen: 19.577 ug/l
 RT: 8.71 min Scan# 781
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 101047
 Ion Ratio Lower Upper
 63 100
 65 31.8 24.1 36.1

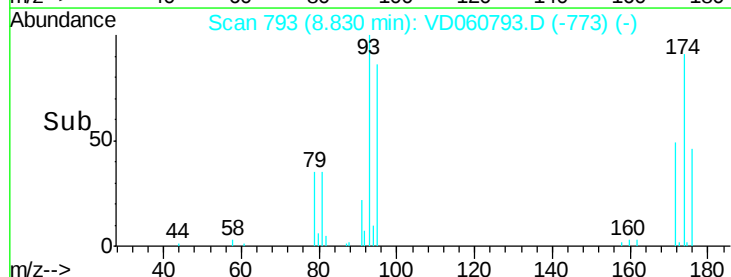
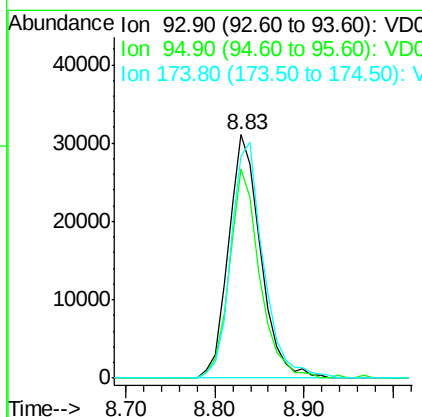
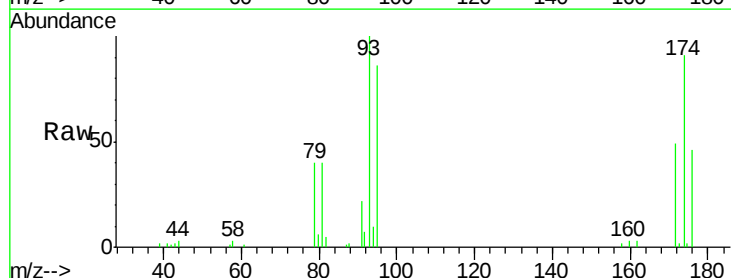
Manual Integrations
 APPROVED

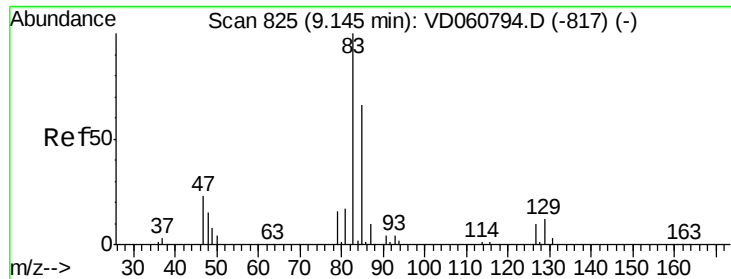
MMDadoda
 1/29/2019 4:55:36 PM



#46
 Dibromomethane
 Concen: 19.585 ug/l
 RT: 8.83 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion: 93 Resp: 78476
 Ion Ratio Lower Upper
 93 100
 95 86.0 65.8 98.8
 174 91.0 79.8 119.6





#47

Bromodichloromethane

Concen: 20.129 ug/l

RT: 9.14 min Scan# 825

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

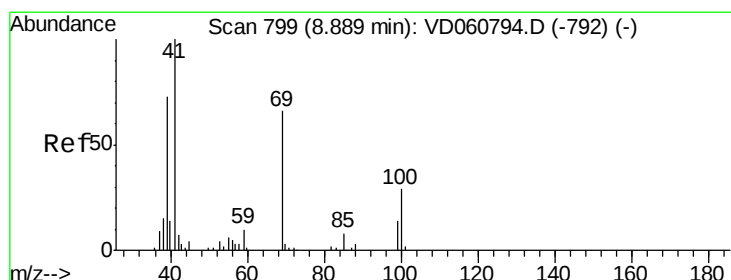
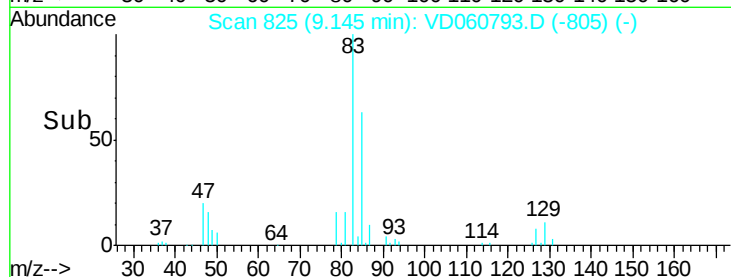
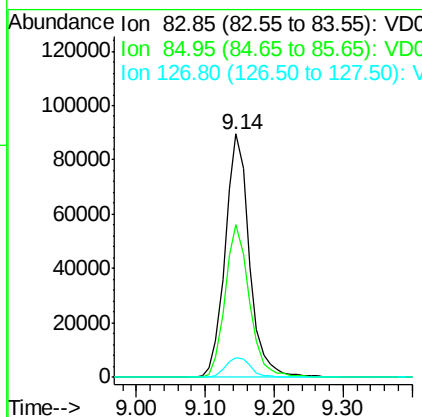
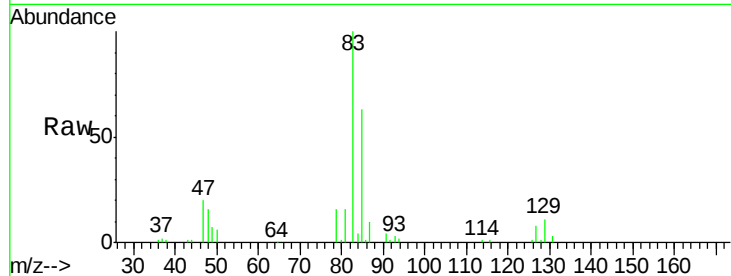
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	217704
Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.6	79.0
127	8.2	7.7	11.5

Manual Integrations
APPROVED

MMDadoda
1/29/2019 4:55:36 PM



#48

Methyl methacrylate

Concen: 17.359 ug/l

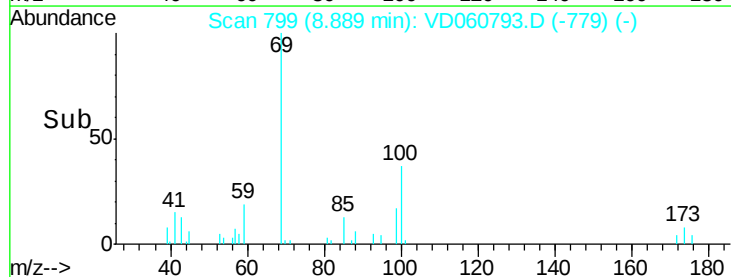
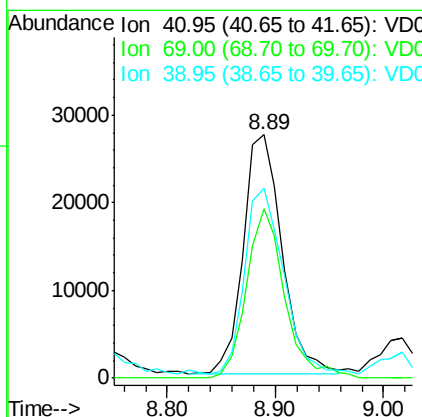
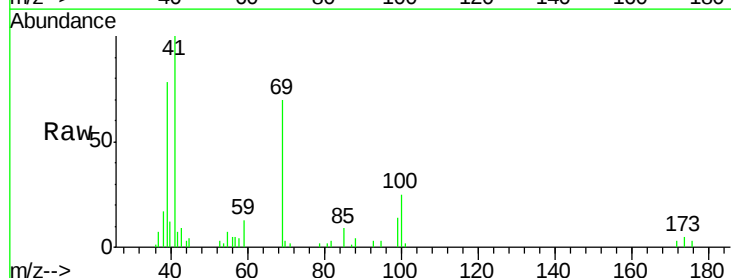
RT: 8.89 min Scan# 799

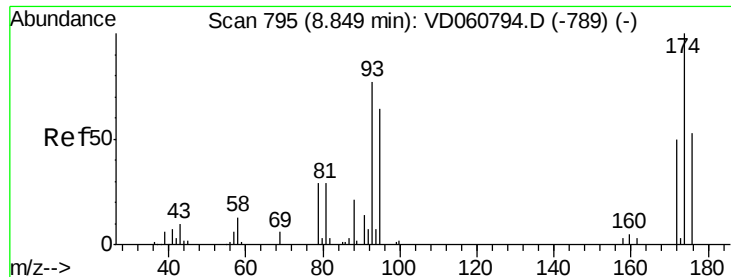
Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Tgt Ion:	41	Resp:	67331
Ion	Ratio	Lower	Upper
41	100		
69	69.5	52.5	78.7
39	77.7	59.0	88.6





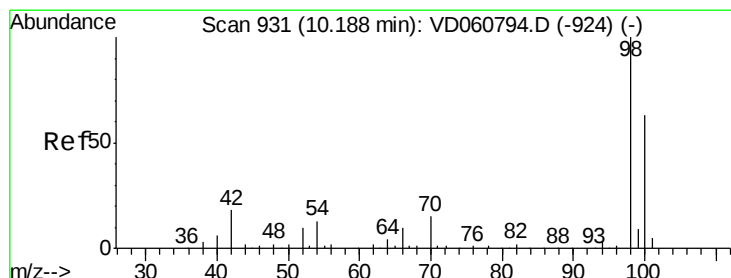
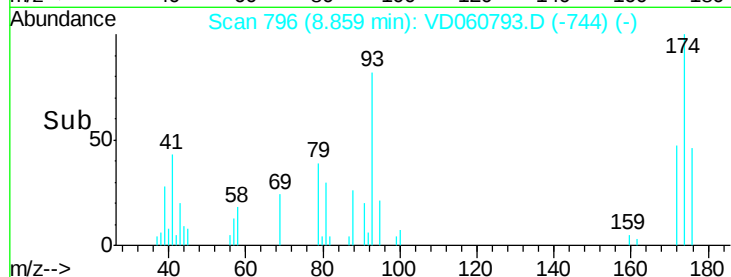
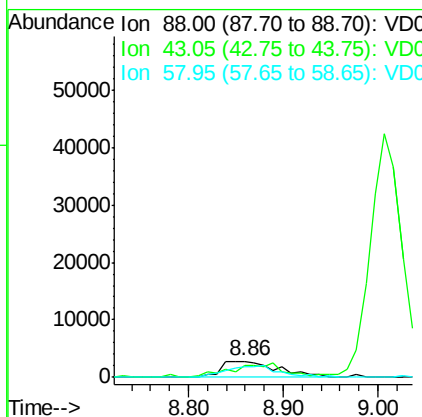
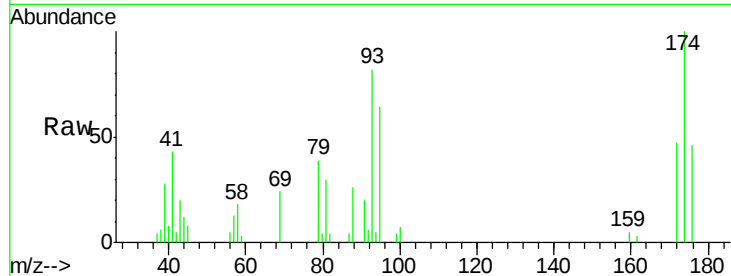
#49
1,4-Dioxane
Concen: 387.929 ug/l
RT: 8.86 min Scan# 796
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 88 Resp: 11666
Ion Ratio Lower Upper
88 100
43 77.0 40.9 61.3#
58 68.2 52.2 78.4

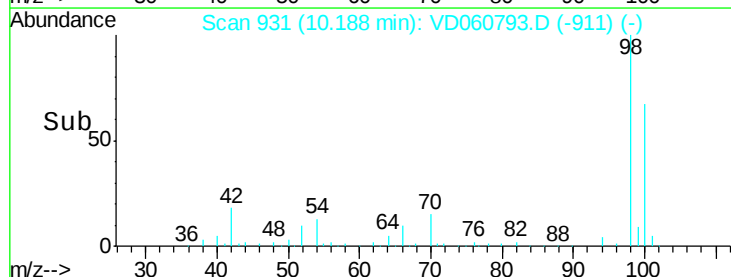
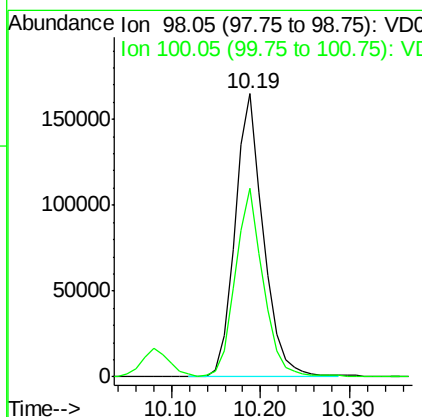
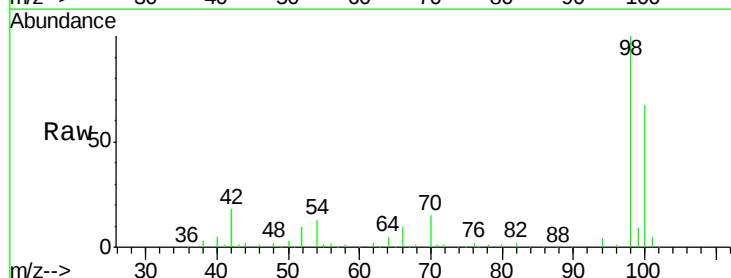
Manual Integrations
APPROVED

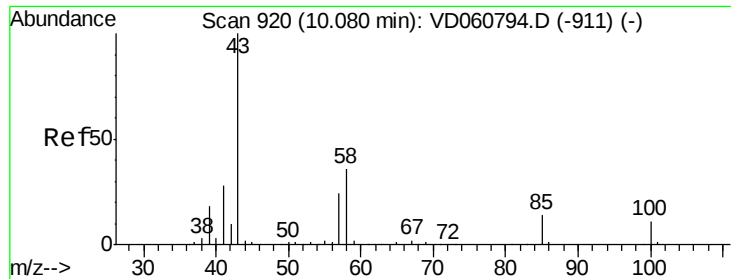
MMDadoda
1/29/2019 4:55:36 PM



#50
Toluene-d8
Concen: 387.929 ug/l
RT: 10.19 min Scan# 931
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion: 98 Resp: 364817
Ion Ratio Lower Upper
98 100
100 66.8 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 99.147 ug/l

RT: 10.08 min Scan# 920

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 361153

Ion Ratio Lower Upper

43 100

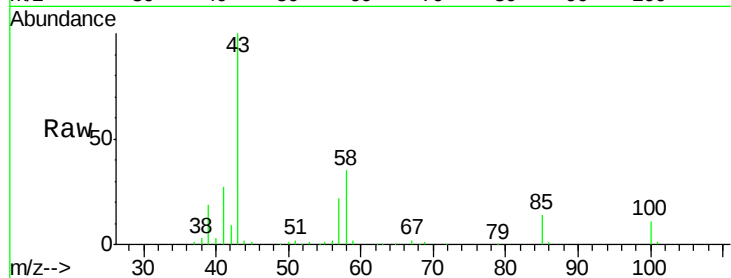
58 35.2 28.4 42.6

Manual Integrations

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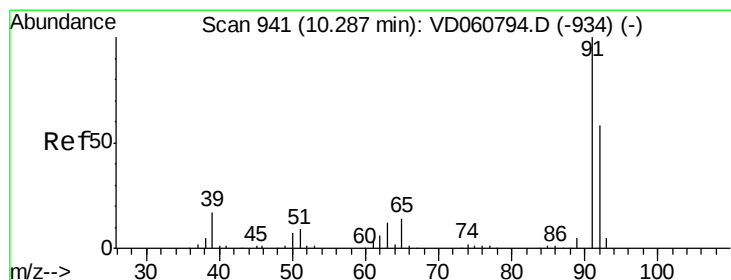
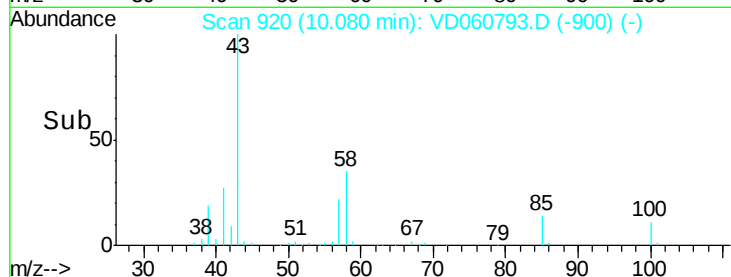
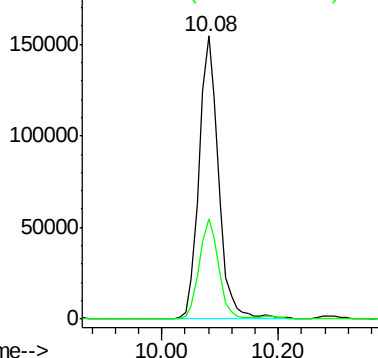
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 18.685 ug/l

RT: 10.29 min Scan# 941

Delta R.T. 0.00 min

Lab File: VD060793.D

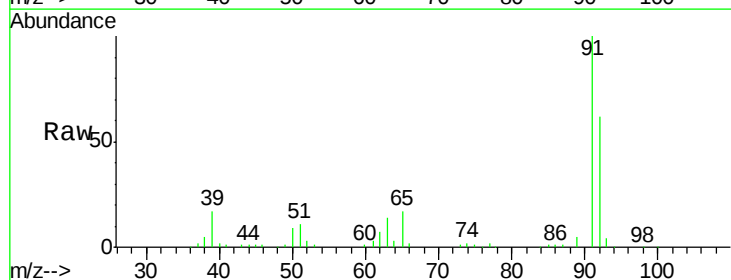
Acq: 28 Jan 2019 16:10

Tgt Ion: 92 Resp: 226000

Ion Ratio Lower Upper

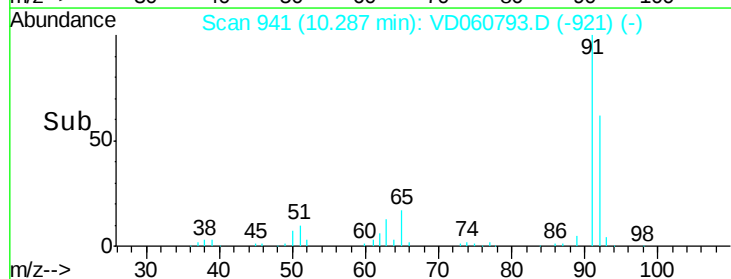
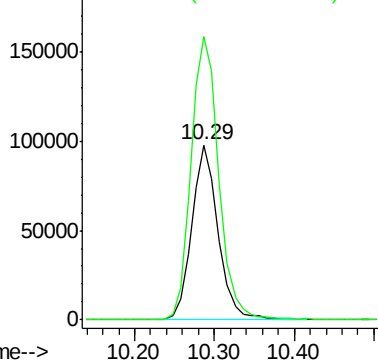
92 100

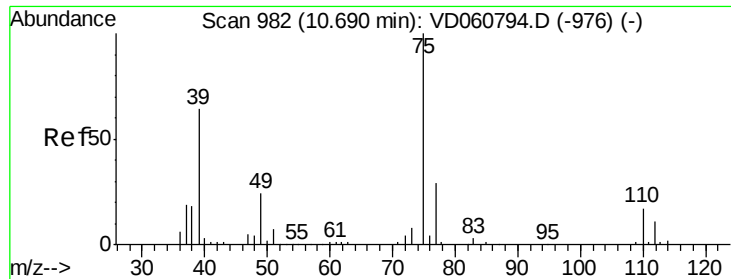
91 162.0 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





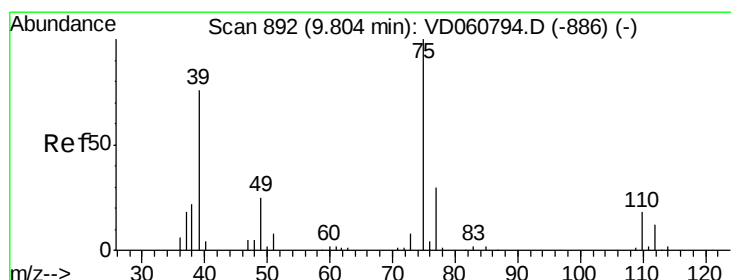
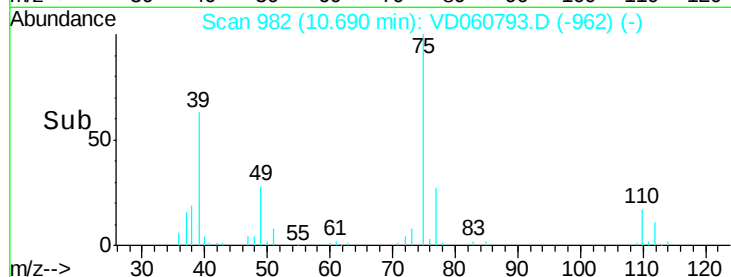
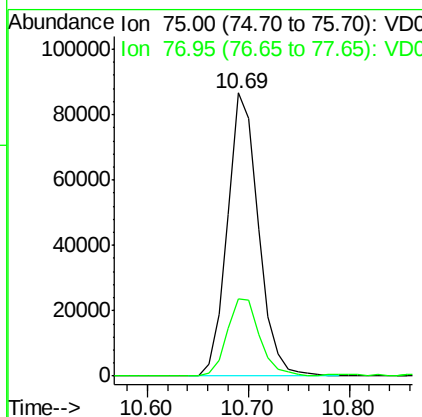
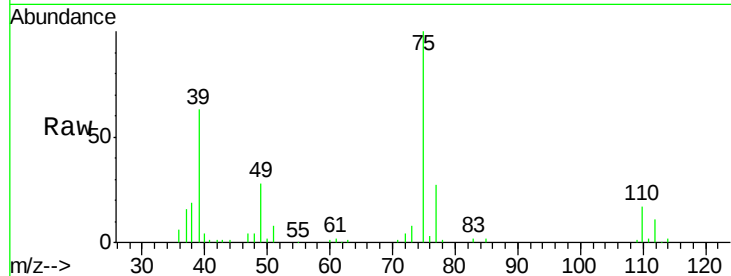
#53
t-1,3-Dichloropropene
Concen: 19.398 ug/l
RT: 10.69 min Scan# 982
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	27.2	23.0	34.6

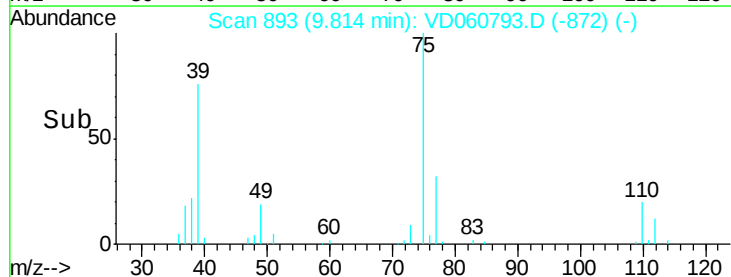
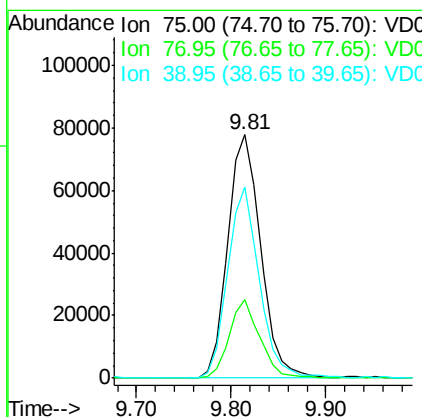
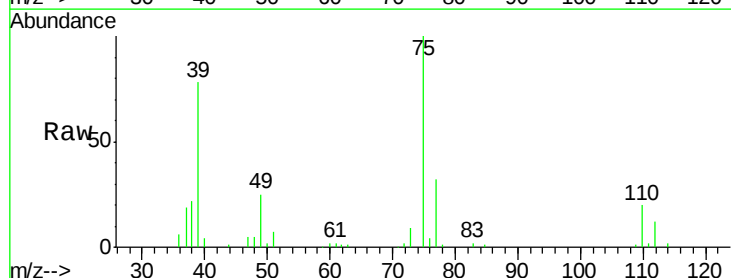
Manual Integrations
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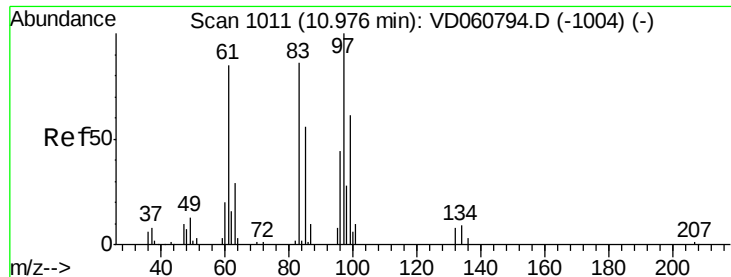
MMDadoda
1/29/2019 4:55:36 PM



#54
cis-1,3-Dichloropropene
Concen: 19.156 ug/l
RT: 9.81 min Scan# 893
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	23.9	35.9
39	78.5	60.4	90.6





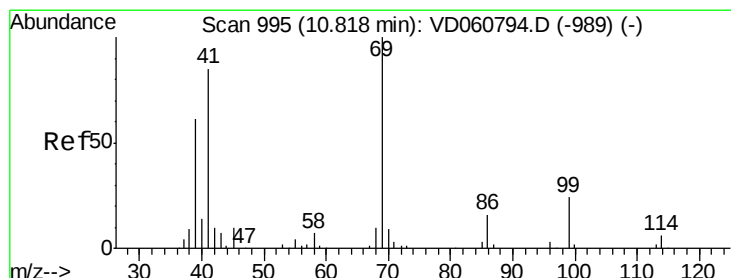
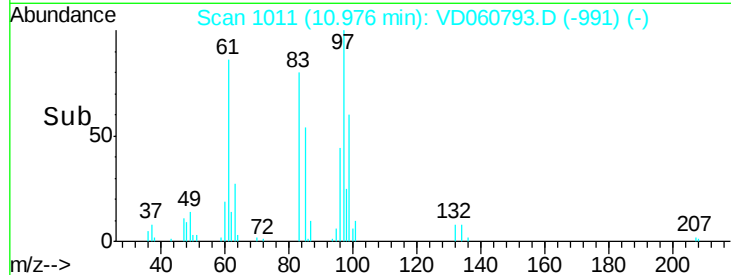
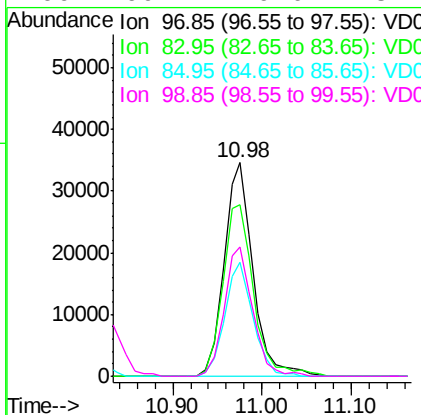
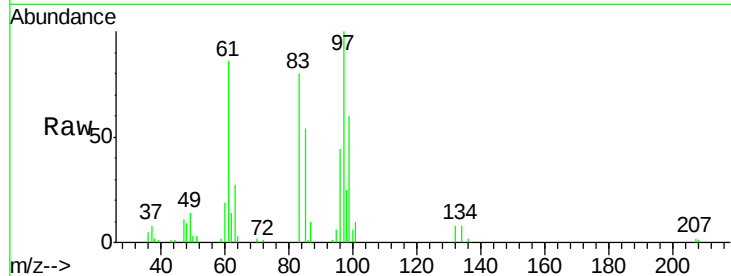
#55
 1,1,2-Trichloroethane
 Concen: 19.014 ug/l
 RT: 10.98 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampled :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		78411		
83	80.4	68.5	102.7		
85	53.5	45.0	67.6		
99	60.4	49.0	73.4		

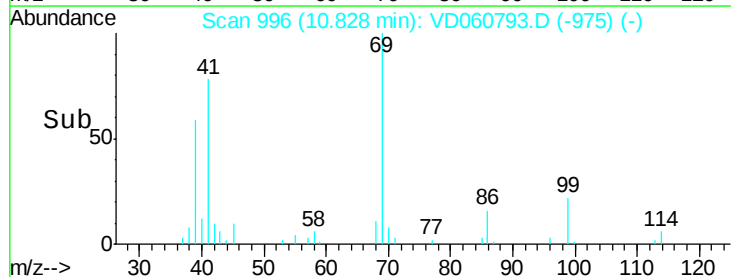
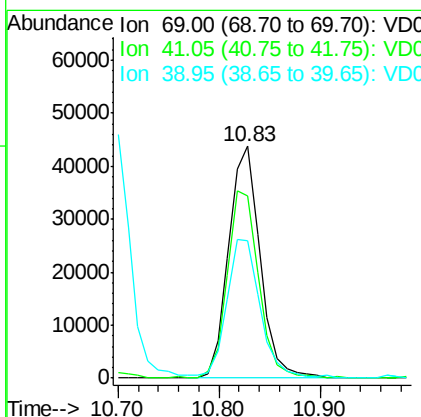
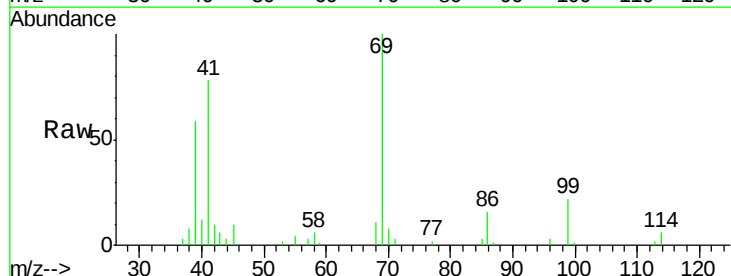
Manual Integrations
 APPROVED

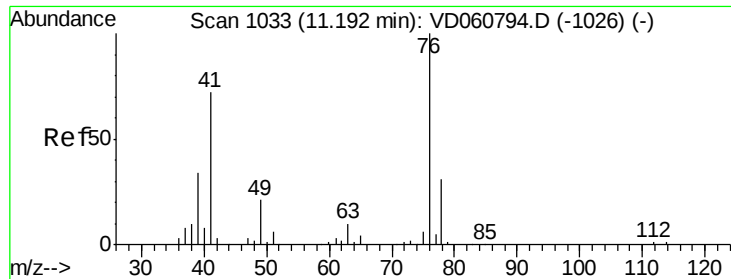
MMDadoda
 1/29/2019 4:55:36 PM



#56
 Ethyl methacrylate
 Concen: 18.955 ug/l
 RT: 10.83 min Scan# 996
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		94689		
41	78.5	68.2	102.2		
39	59.1	49.4	74.0		





#57

1,3-Dichloropropane

Concen: 19.817 ug/l

RT: 11.19 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 139666

Ion Ratio Lower Upper

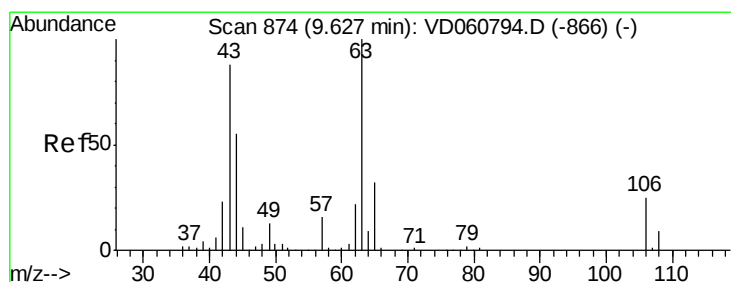
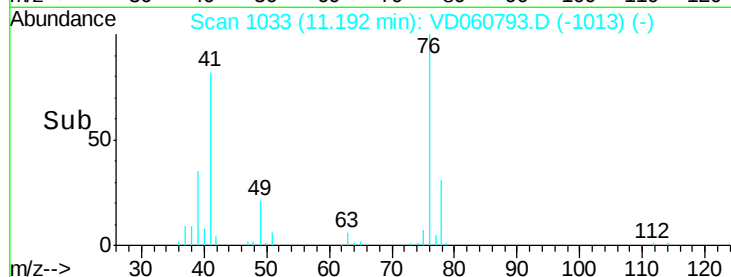
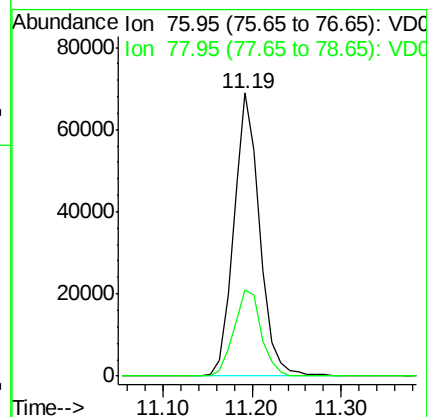
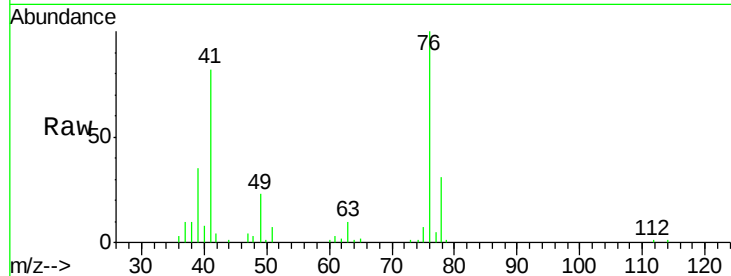
76 100

78 30.6 24.5 36.7

Manual Integrations
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MMDadoda

1/29/2019 4:55:36 PM



#58

2-Chloroethyl Vinyl ether

Concen: 105.892 ug/l

RT: 9.63 min Scan# 874

Delta R.T. 0.00 min

Lab File: VD060793.D

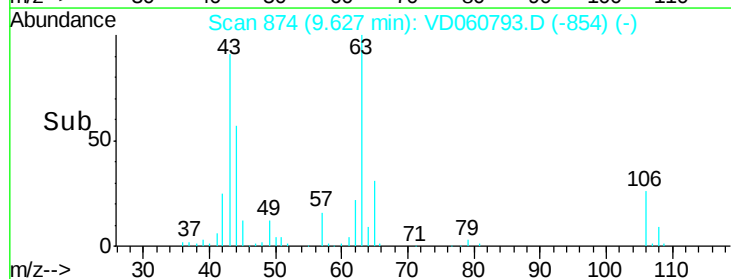
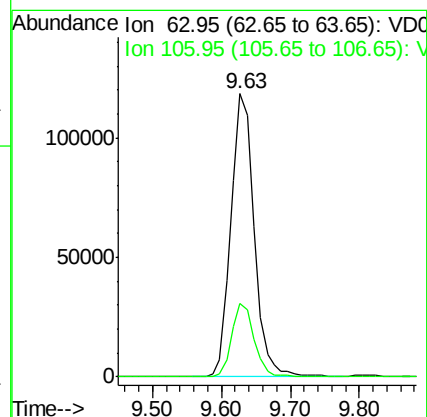
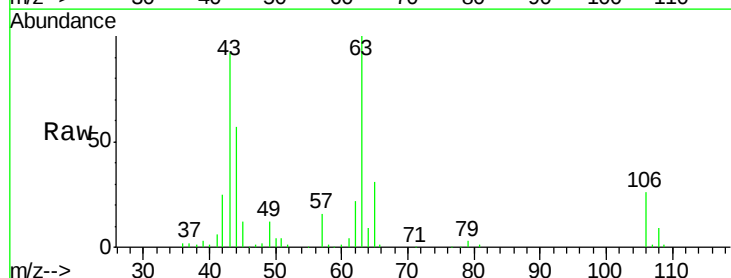
Acq: 28 Jan 2019 16:10

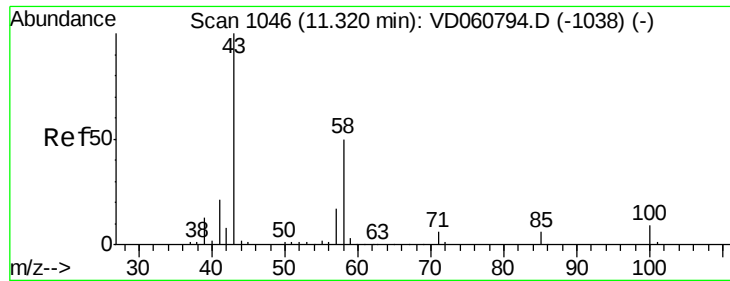
Tgt Ion: 63 Resp: 277554

Ion Ratio Lower Upper

63 100

106 25.9 19.9 29.9





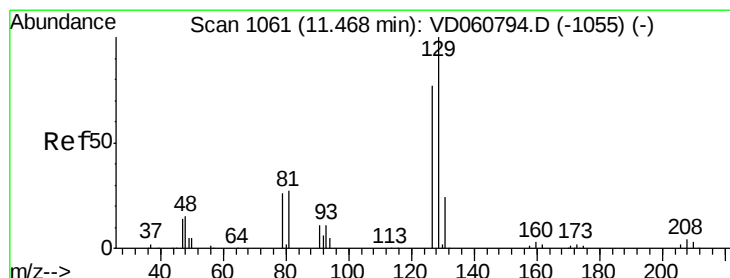
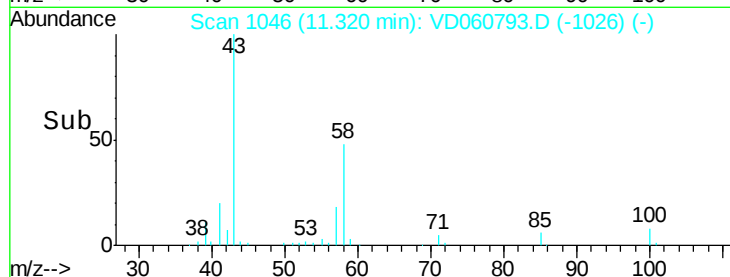
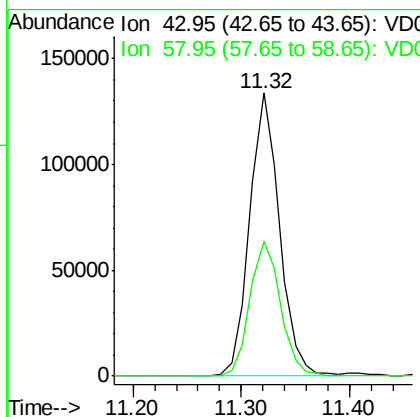
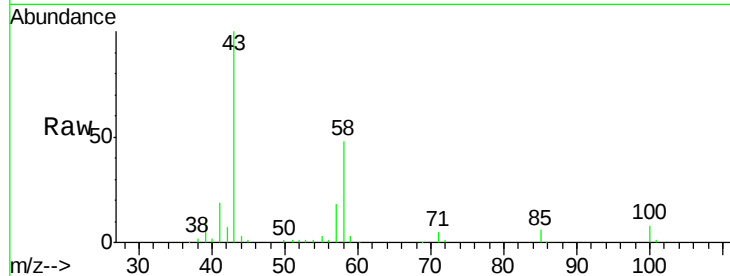
#59
2-Hexanone
Concen: 93.726 ug/l
RT: 11.32 min Scan# 1046
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 256702
Ion Ratio Lower Upper
43 100
58 47.6 25.0 75.0

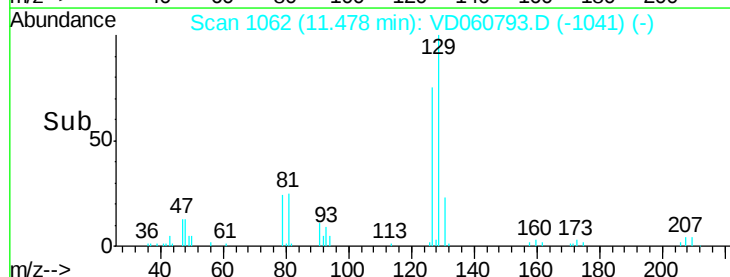
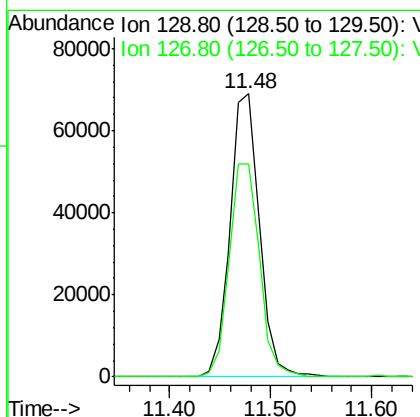
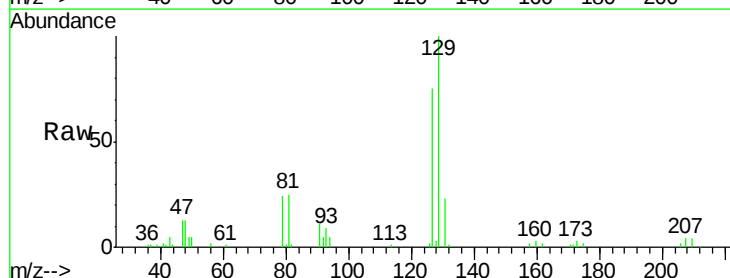
Manual Integrations
APPROVED

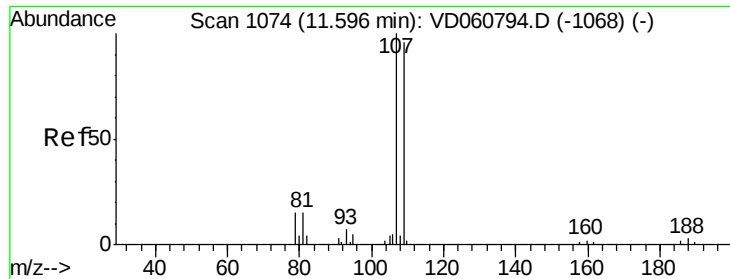
MMDadoda
1/29/2019 4:55:36 PM



#60
Dibromochloromethane
Concen: 18.768 ug/l
RT: 11.48 min Scan# 1062
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion: 129 Resp: 139139
Ion Ratio Lower Upper
129 100
127 75.2 38.6 115.7





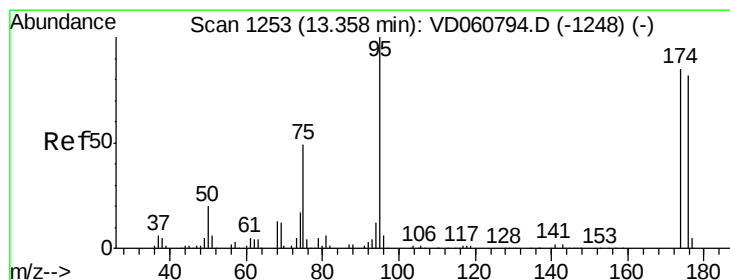
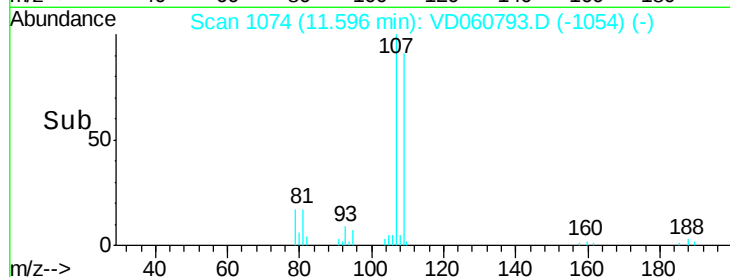
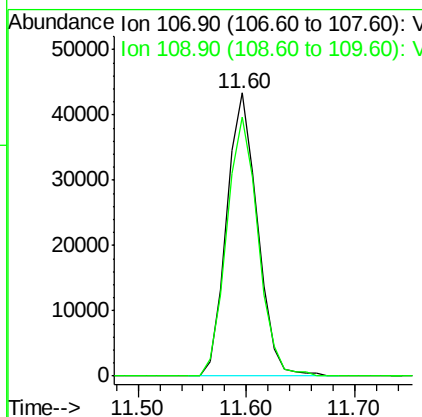
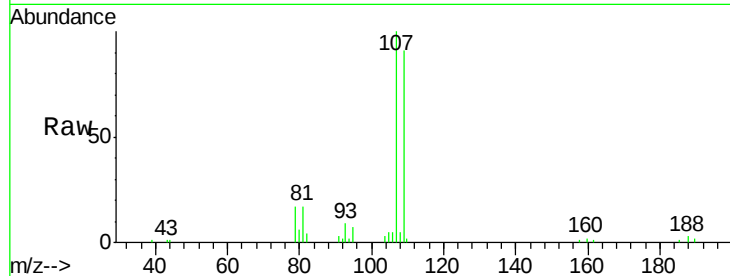
#61
 1,2-Dibromoethane
 Concen: 17.653 ug/l
 RT: 11.60 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 107 Resp: 85732
 Ion Ratio Lower Upper
 107 100
 109 91.4 76.6 114.8

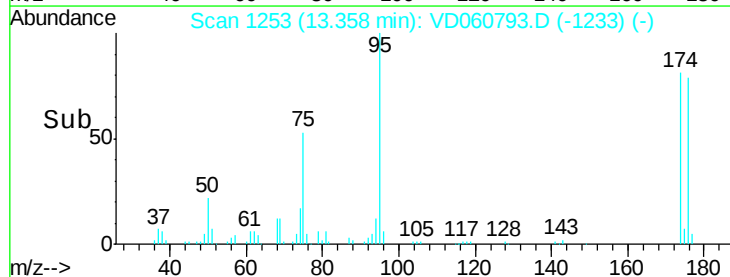
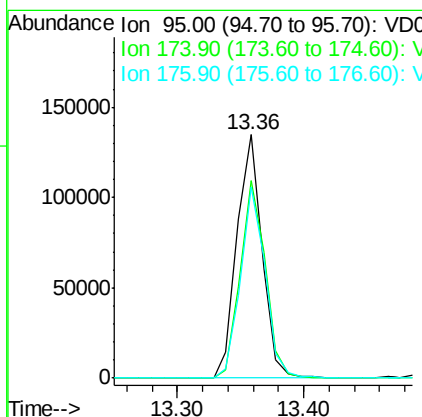
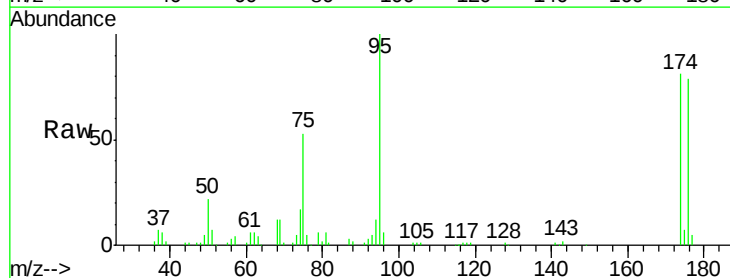
Manual Integrations
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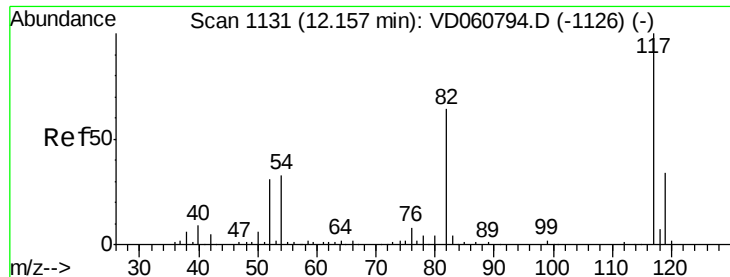
MMDadoda
 1/29/2019 4:55:36 PM



#62
 4-Bromofluorobenzene
 Concen: 17.653 ug/l
 RT: 13.36 min Scan# 1253
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion: 95 Resp: 184863
 Ion Ratio Lower Upper
 95 100
 174 81.3 0.0 169.6
 176 78.5 0.0 163.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.17 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:117 Resp: 636342

Ion Ratio Lower Upper

117 100

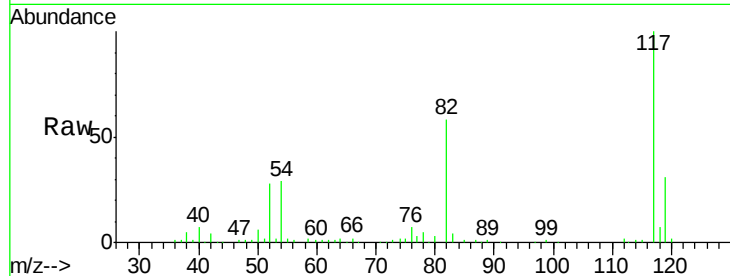
82 57.8 51.5 77.3

119 31.2 27.1 40.7

Manual Integrations
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MMDadoda

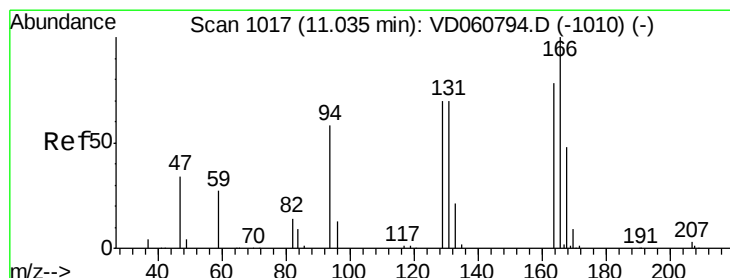
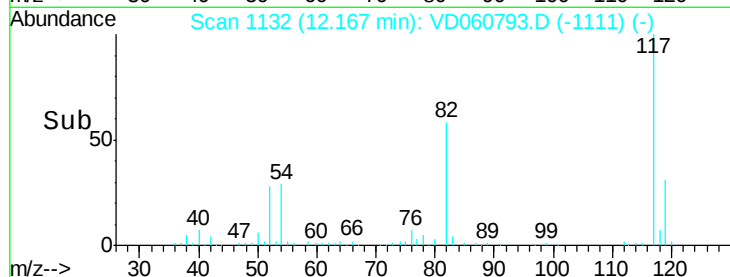
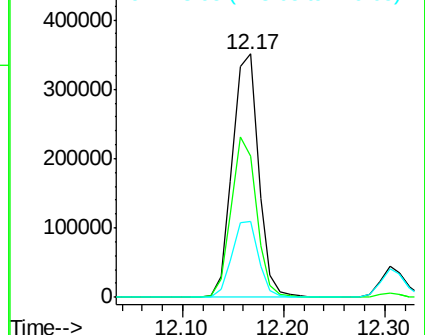
1/29/2019 4:55:36 PM



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 19.589 ug/l

RT: 11.03 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Tgt Ion:164 Resp: 114401

Ion Ratio Lower Upper

164 100

166 121.2 102.6 154.0

129 86.2 72.3 108.5

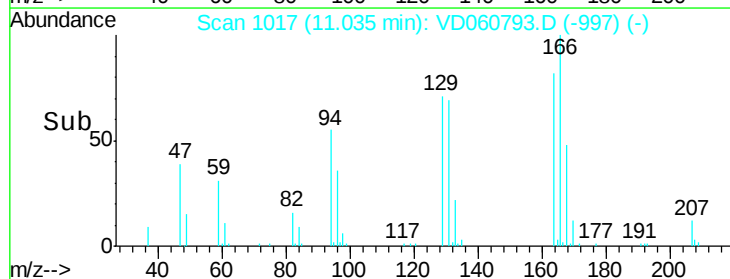
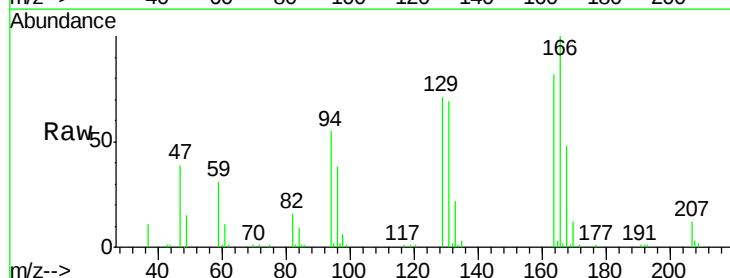
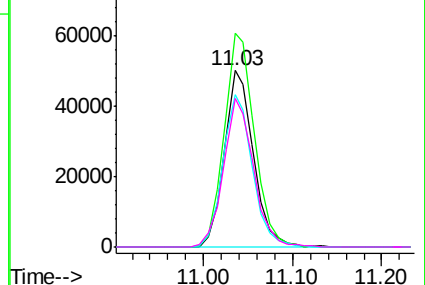
131 84.2 72.1 108.1

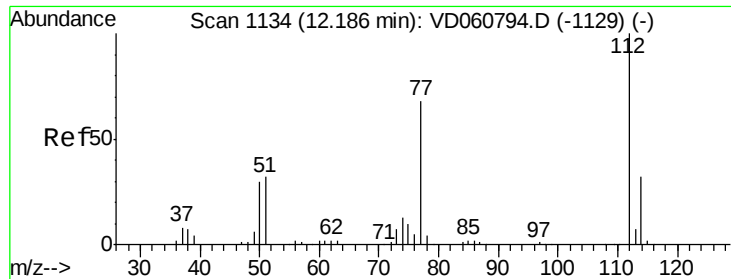
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





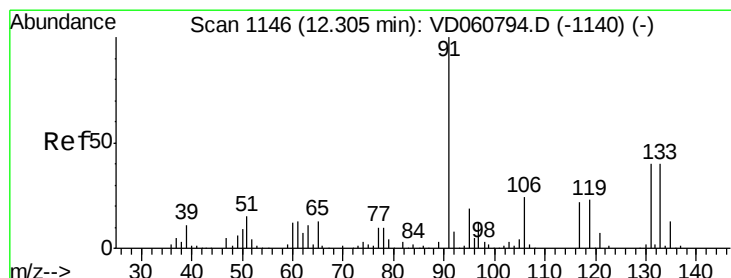
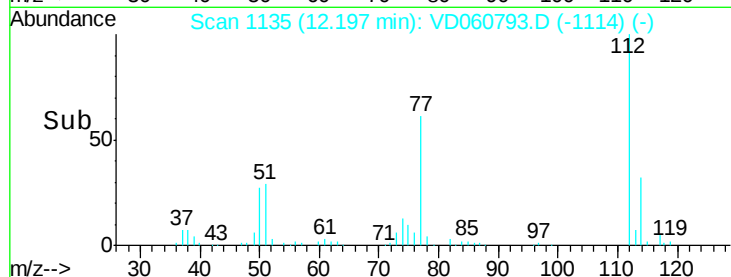
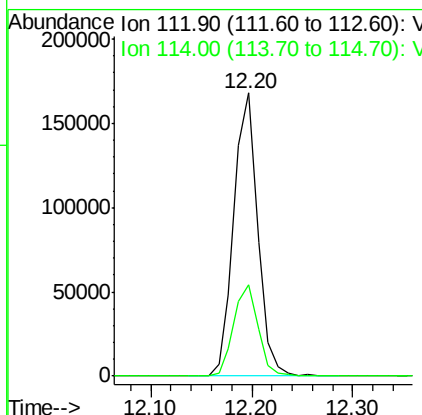
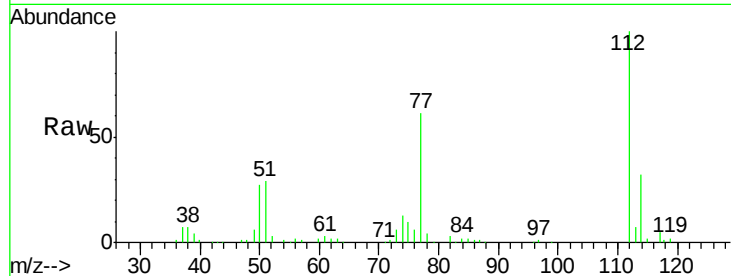
#65
Chlorobenzene
Concen: 19.057 ug/l
RT: 12.20 min Scan# 1135
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.2	37.8

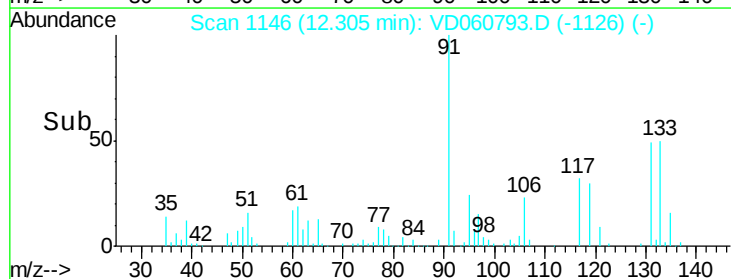
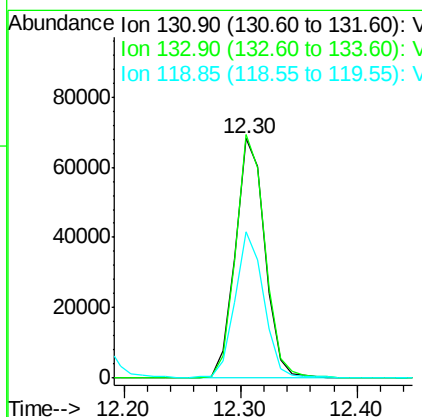
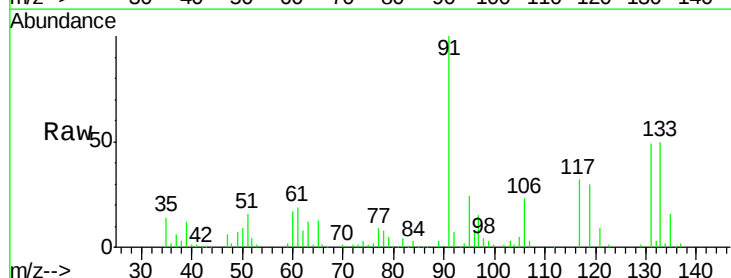
Manual Integrations
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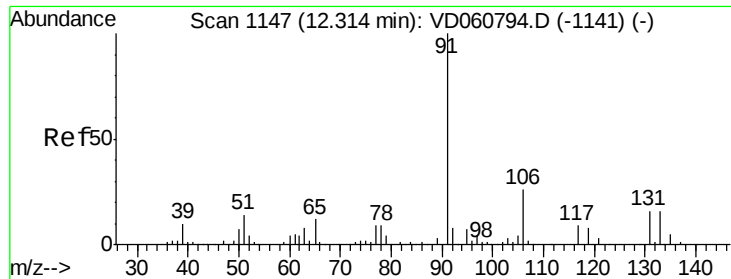
MMDadoda
1/29/2019 4:55:36 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.149 ug/l
RT: 12.30 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
131	100		
133	101.8	49.9	149.7
119	60.9	28.5	85.5





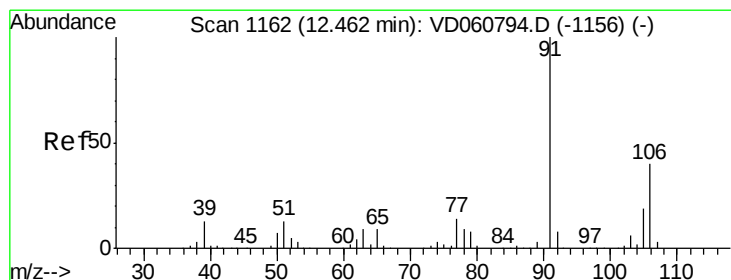
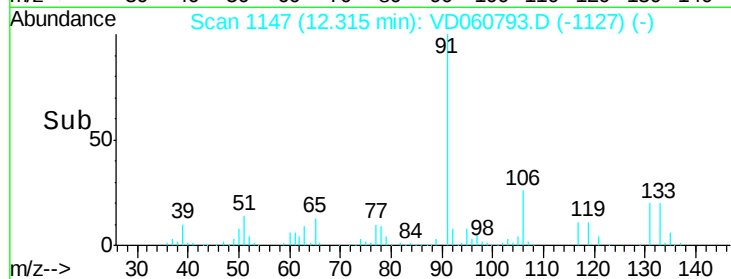
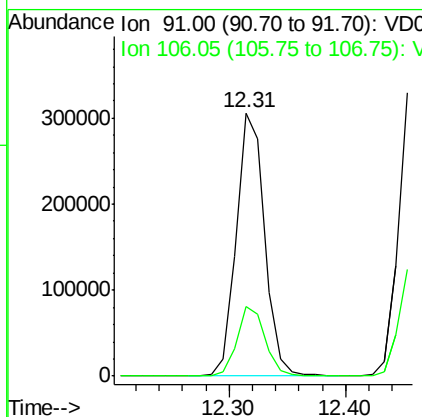
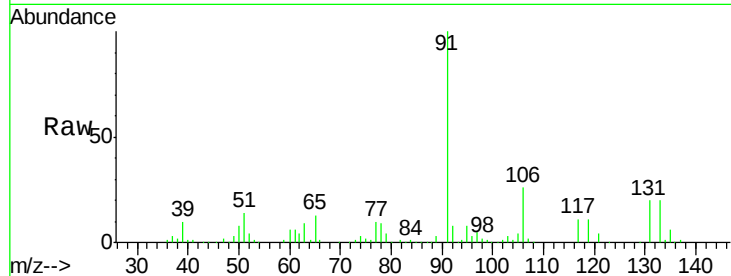
#67
Ethyl Benzene
Concen: 19.657 ug/l
RT: 12.31 min Scan# 1147
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 514000
Ion Ratio Lower Upper
91 100
106 26.2 21.0 31.6

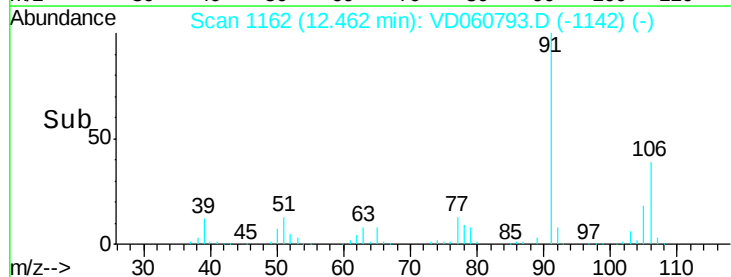
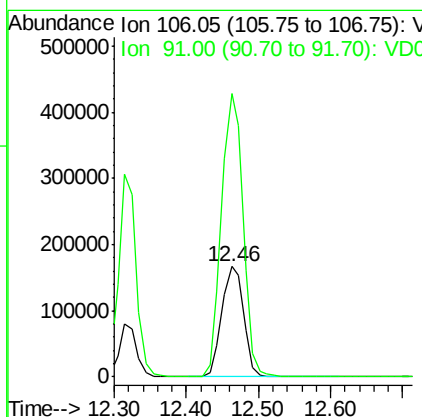
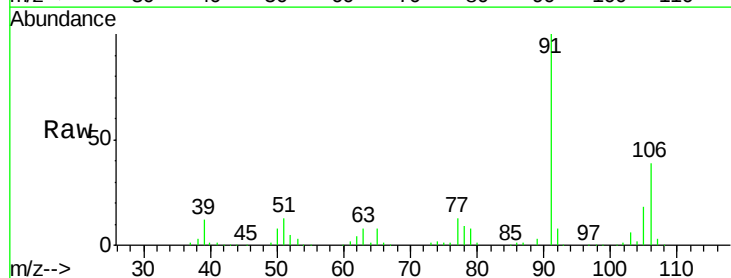
Manual Integrations
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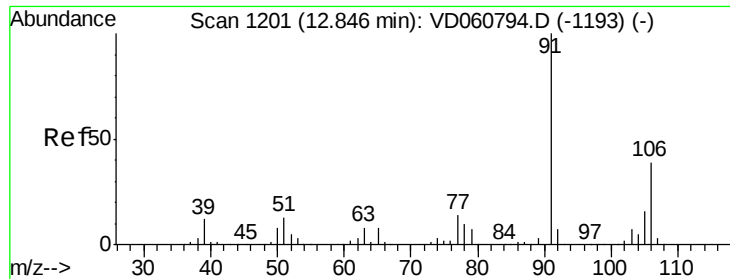
MMDadoda
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#68
m/p-Xylenes
Concen: 41.015 ug/l
RT: 12.46 min Scan# 1162
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion: 106 Resp: 348932
Ion Ratio Lower Upper
106 100
91 256.5 200.5 300.7





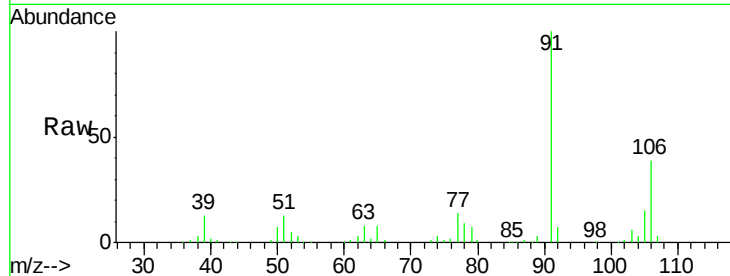
#69
o-Xylene
Concen: 19.451 ug/l
RT: 12.85 min Scan# 1201
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

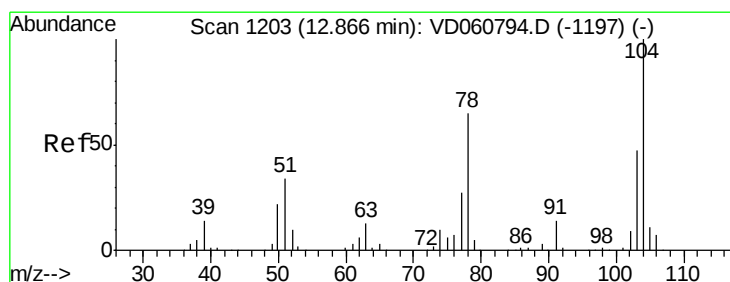
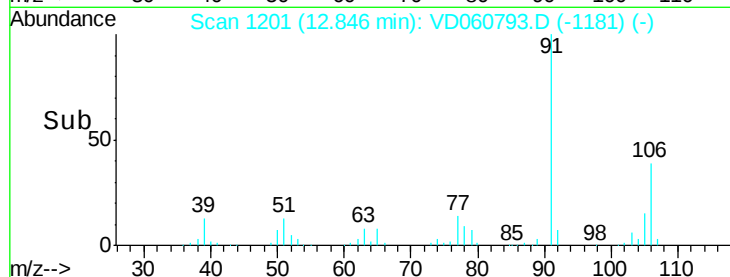
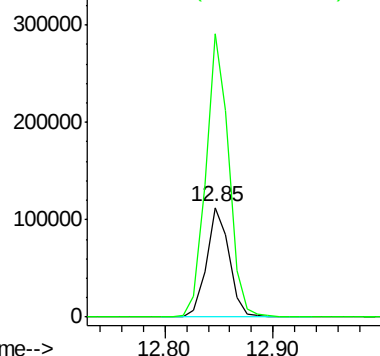
Tot Ion:106 Resp: 163782
Ion Ratio Lower Upper
106 100
91 258.0 127.6 382.7

Manual Integrations
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1/29/2019 4:55:36 PM

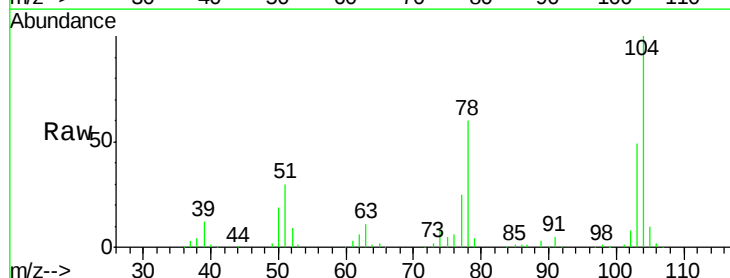


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

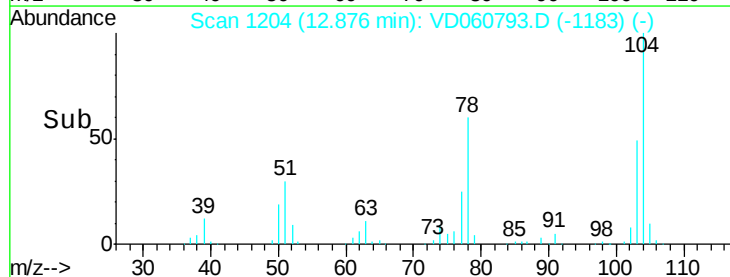
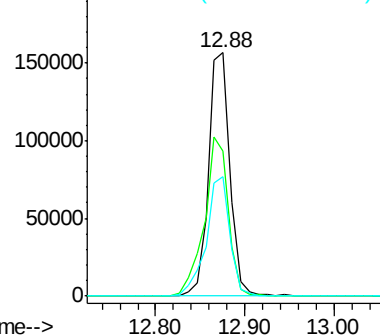


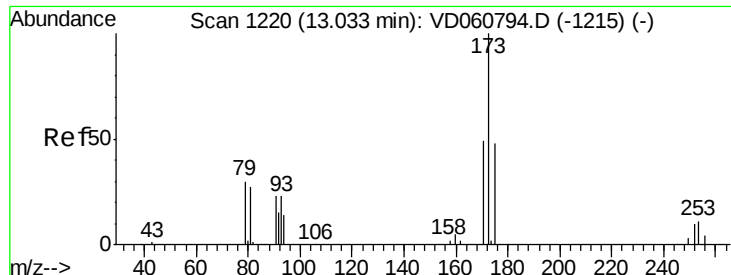
#70
Styrene
Concen: 18.690 ug/l
RT: 12.88 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion:104 Resp: 263900
Ion Ratio Lower Upper
104 100
78 59.8 52.0 78.0
103 49.0 37.7 56.5



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





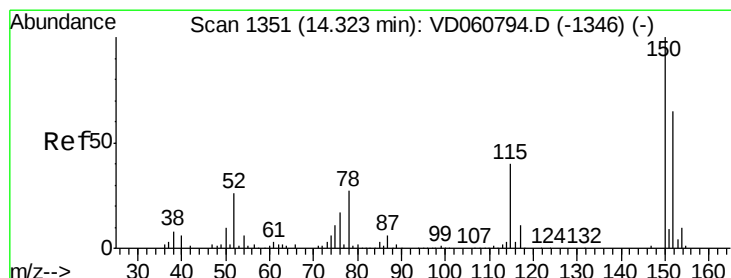
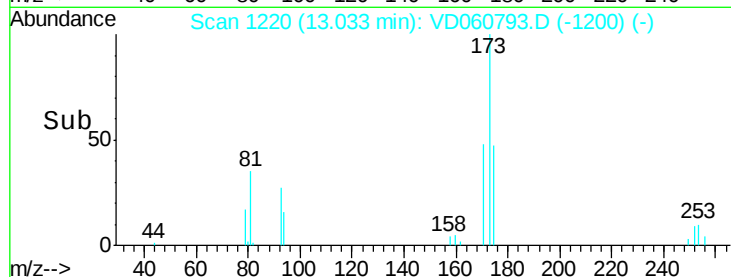
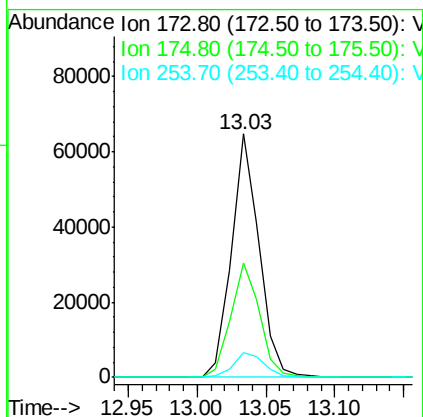
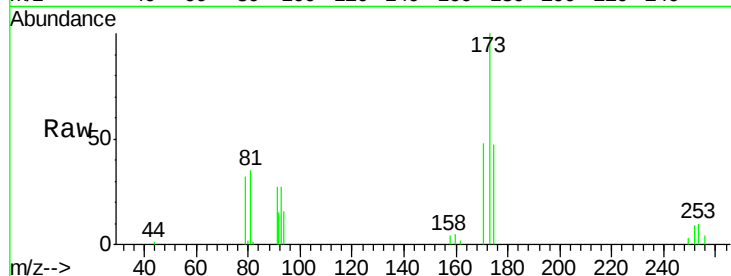
#71
Bromoform
Concen: 19.164 ug/l
RT: 13.03 min Scan# 1220
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	24.1	72.4
254	10.4	9.1	13.7

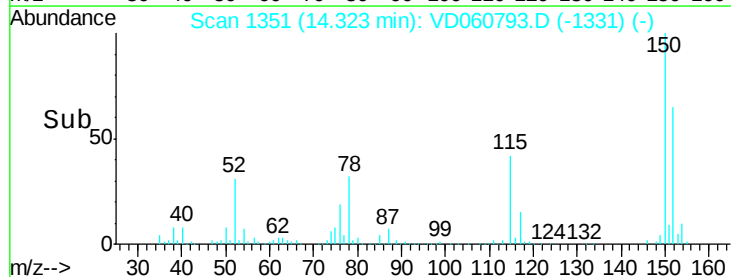
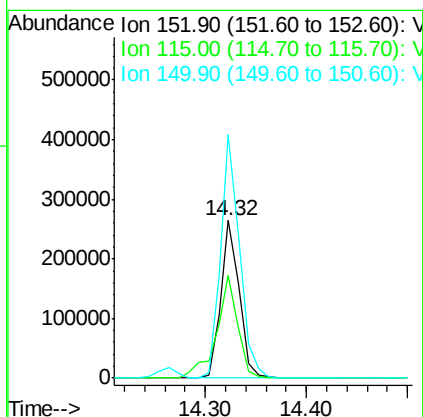
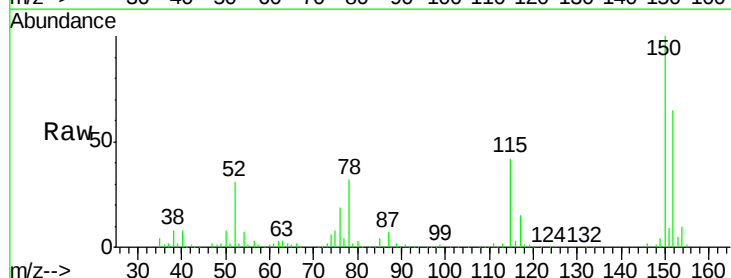
Manual Integrations
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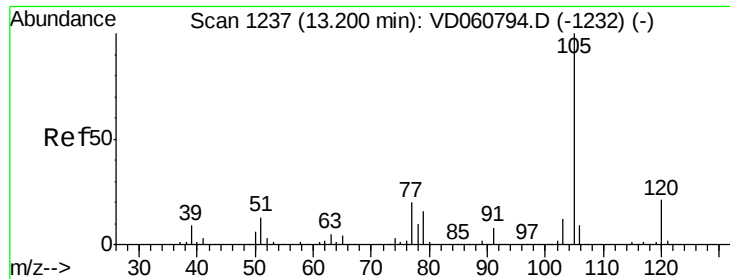
MMDadoda
1/29/2019 4:55:36 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.32 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.4	31.6	95.0
150	154.8	0.0	317.6





#73

Isopropylbenzene

Concen: 18.449 ug/l

RT: 13.20 min Scan# 1237

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 494738

Ion Ratio Lower Upper

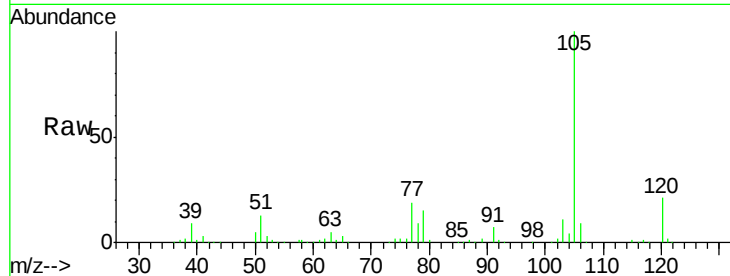
105 100

120 20.8 10.7 32.1

Manual Integrations
APPROVED

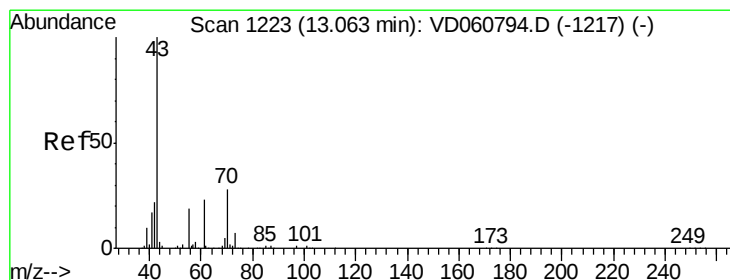
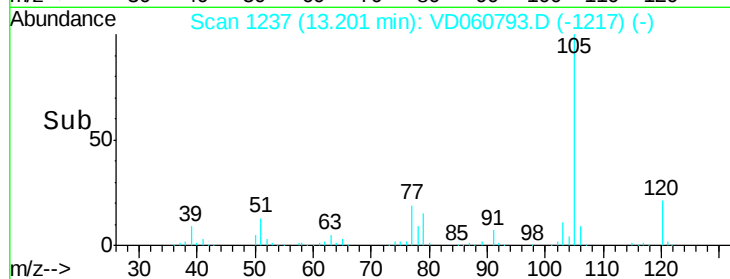
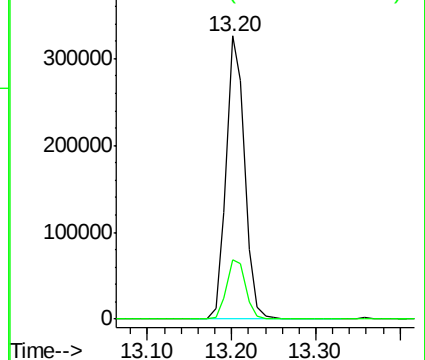
MMDadoda

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 17.653 ug/l

RT: 13.06 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Tgt Ion: 43 Resp: 145530

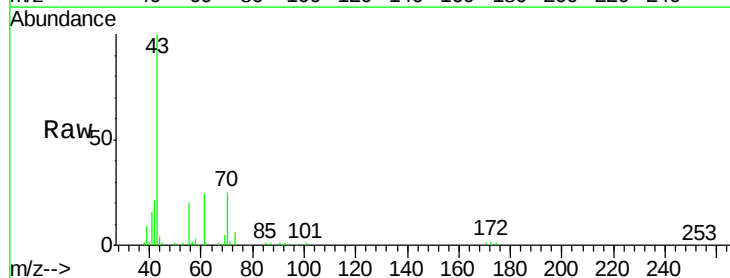
Ion Ratio Lower Upper

43 100

70 25.3 22.2 33.4

55 20.0 15.5 23.3

61 24.1 18.4 27.6

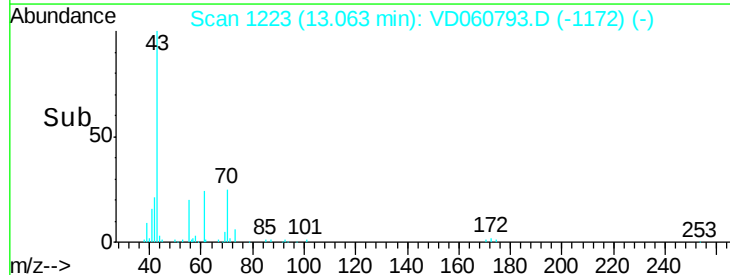
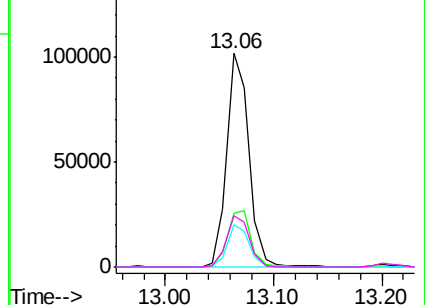


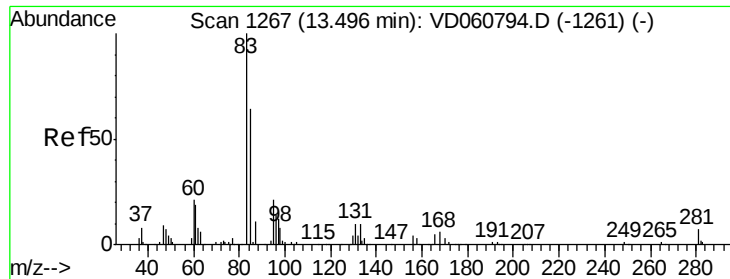
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 18.558 ug/l

RT: 13.51 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

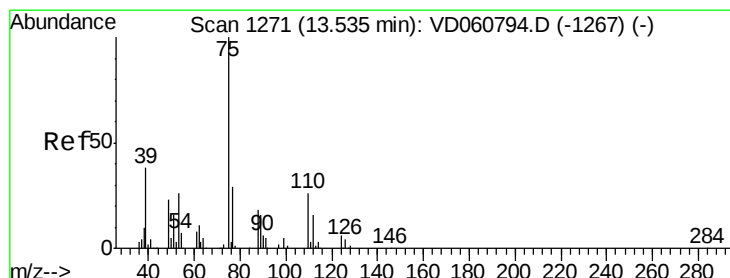
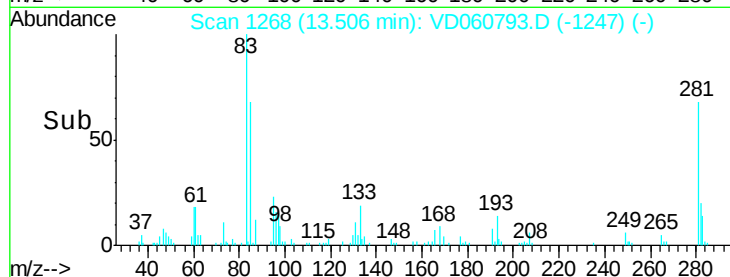
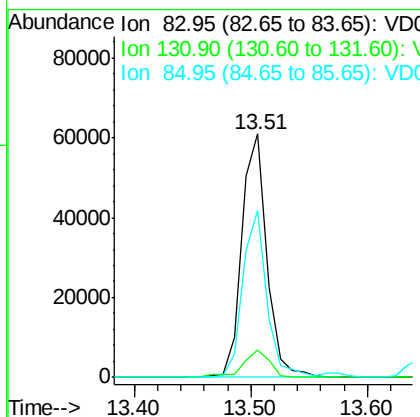
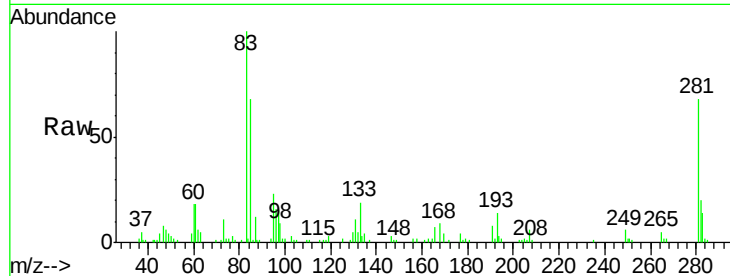
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	90617
Ion Ratio	Lower	Upper	
83	100		
131	11.4	5.0	15.0
85	68.4	31.8	95.4

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.537 ug/l

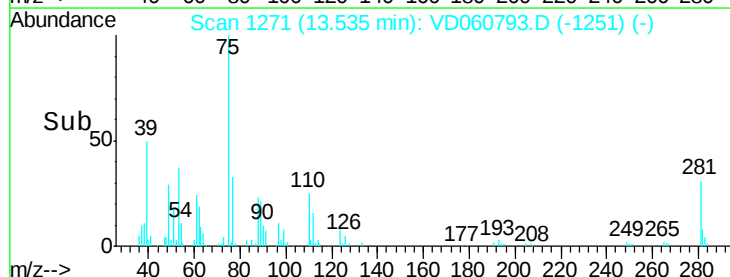
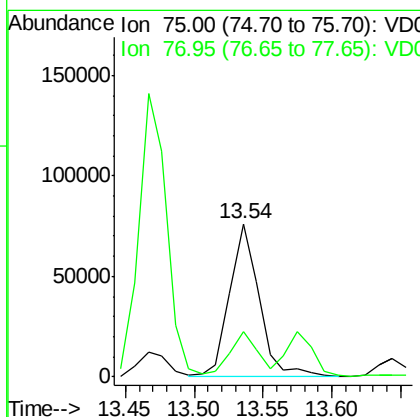
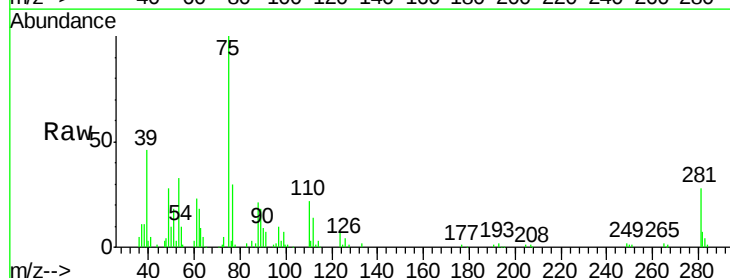
RT: 13.54 min Scan# 1271

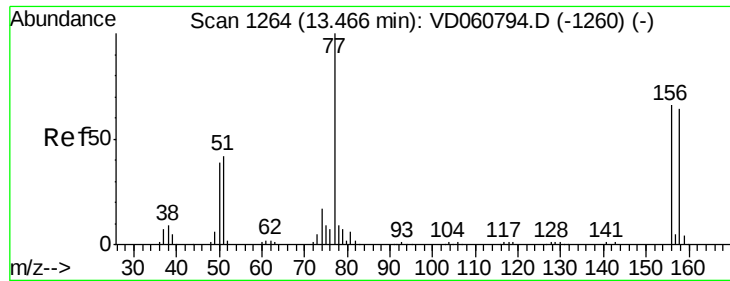
Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Tgt Ion:	75	Resp:	114331
Ion Ratio	Lower	Upper	
75	100		
77	29.7	15.9	47.7





#77

Bromobenzene

Concen: 18.741 ug/l

RT: 13.48 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 129189

Ion Ratio Lower Upper

156 100

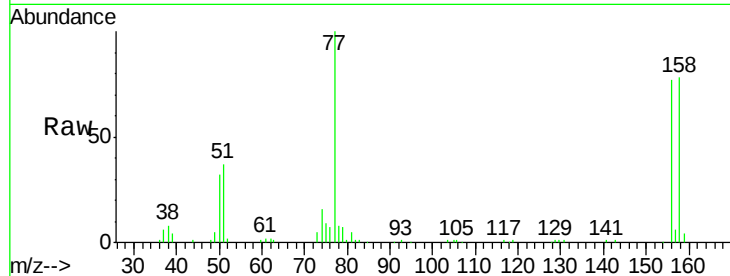
77 130.1 76.0 228.0

158 101.5 48.4 145.0

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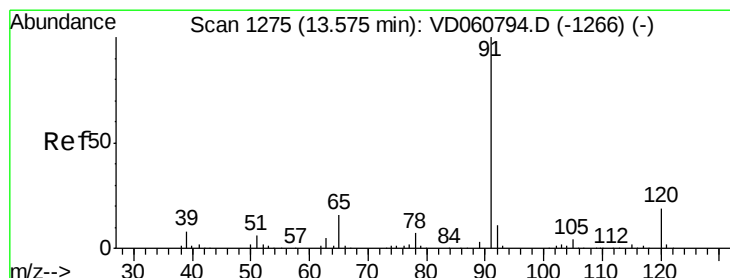
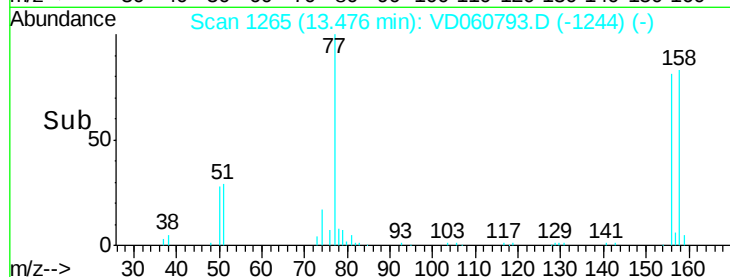
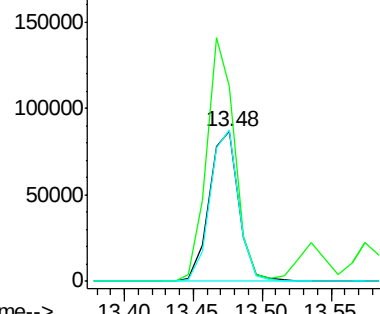
1/29/2019 4:55:36 PM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 19.525 ug/l

RT: 13.57 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VD060793.D

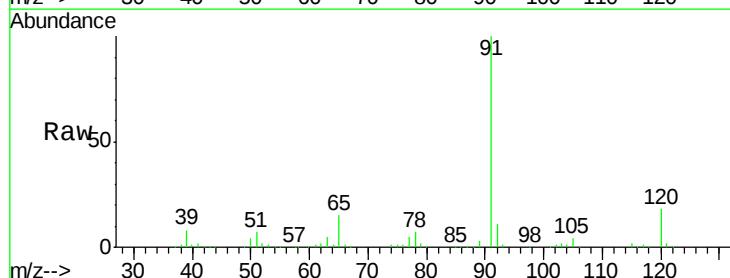
Acq: 28 Jan 2019 16:10

Tgt Ion: 91 Resp: 657287

Ion Ratio Lower Upper

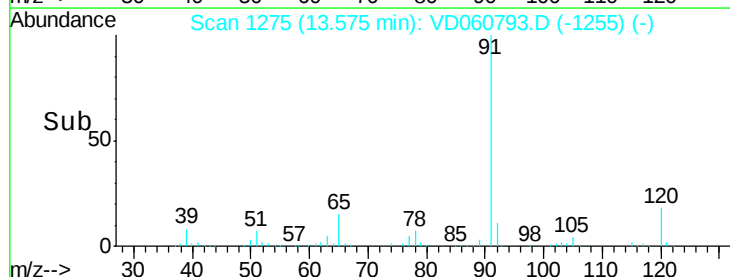
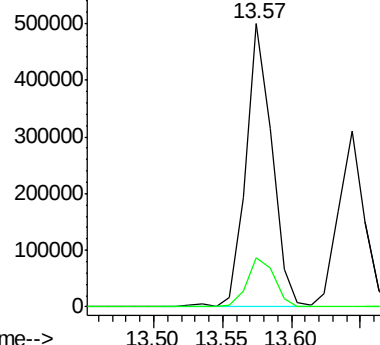
91 100

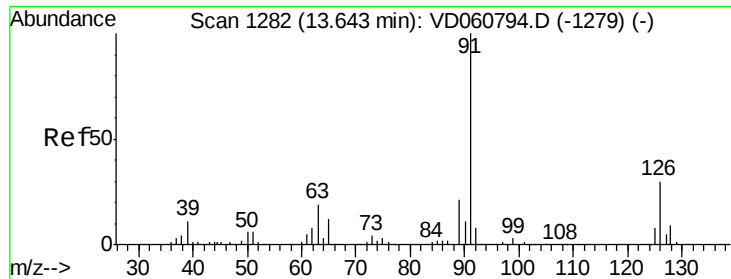
120 17.5 9.7 28.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





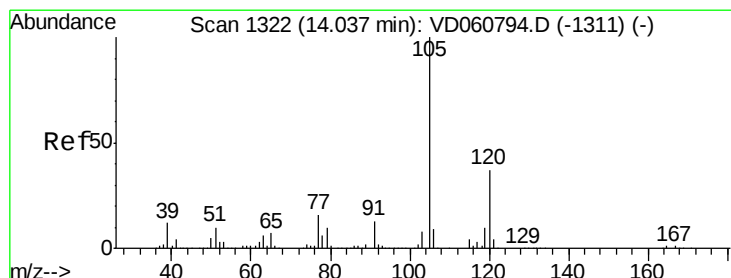
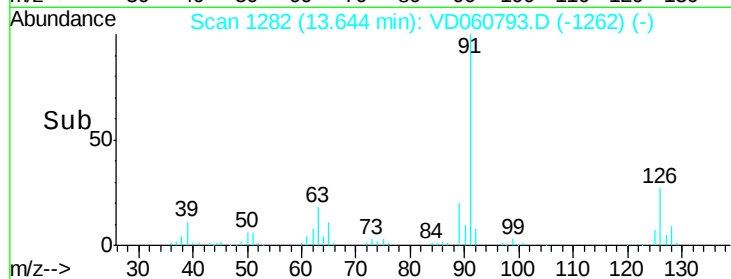
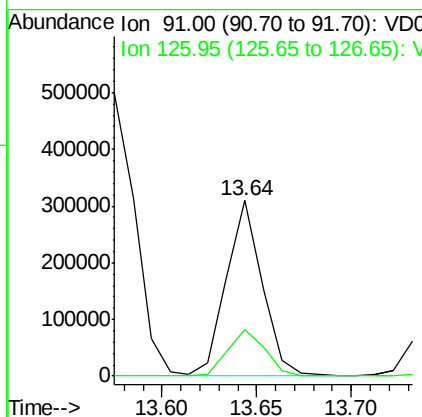
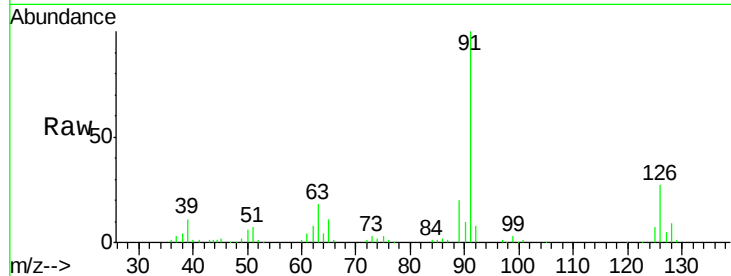
#79
 2-Chlorotoluene
 Concen: 19.576 ug/l
 RT: 13.64 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 91 Resp: 401946
 Ion Ratio Lower Upper
 91 100
 126 26.8 14.7 44.1

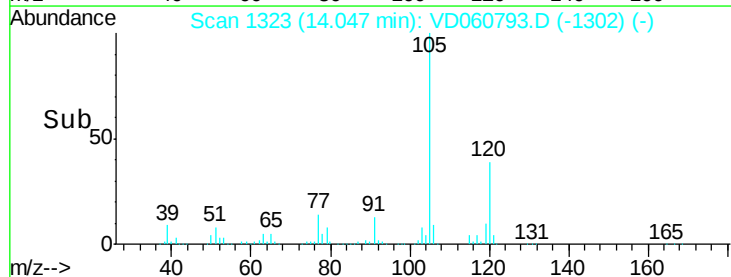
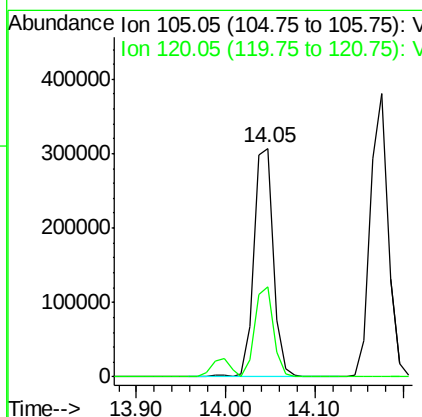
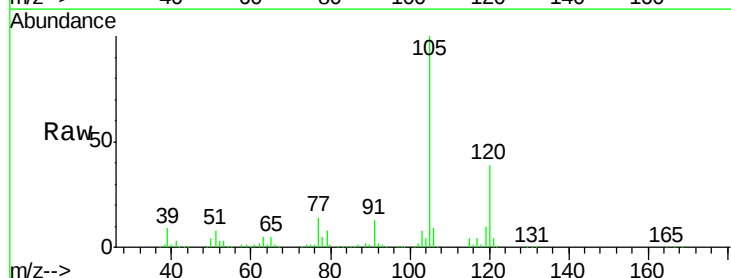
Manual Integrations
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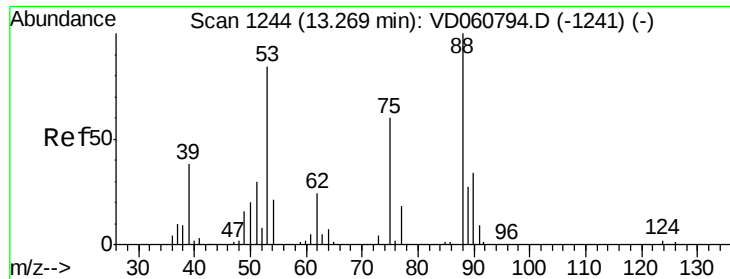
MMDadoda
 1/29/2019 4:55:36 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 19.892 ug/l
 RT: 14.05 min Scan# 1323
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion: 105 Resp: 459218
 Ion Ratio Lower Upper
 105 100
 120 39.3 18.4 55.2





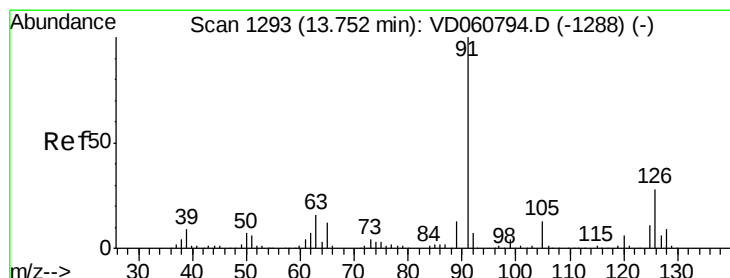
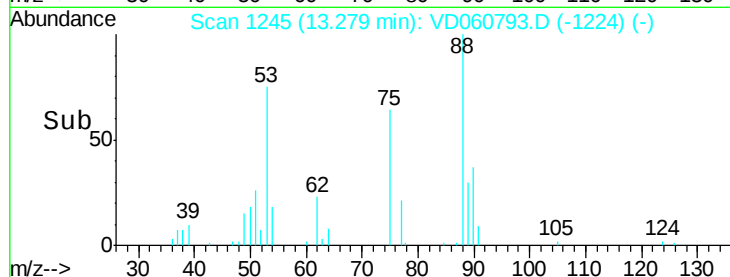
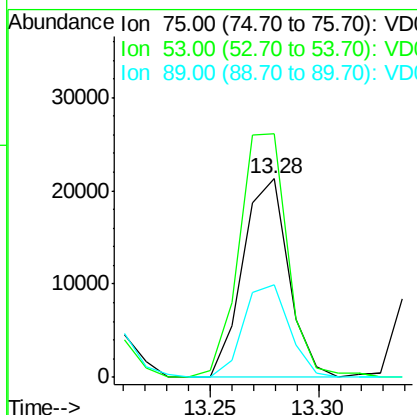
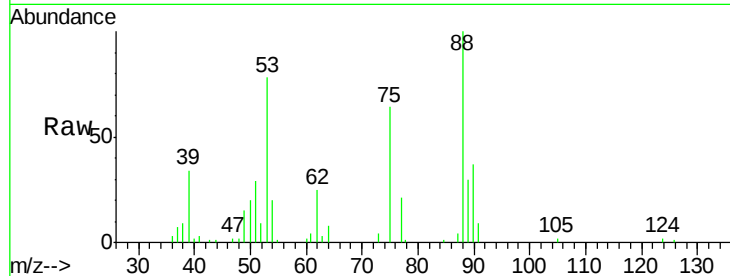
#81
trans-1,4-Dichloro-2-butene
Concen: 19.421 ug/l
RT: 13.28 min Scan# 1245
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	122.8	111.6	167.4
89	46.6	35.9	53.9

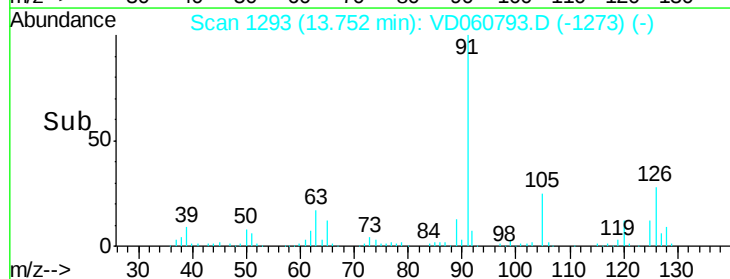
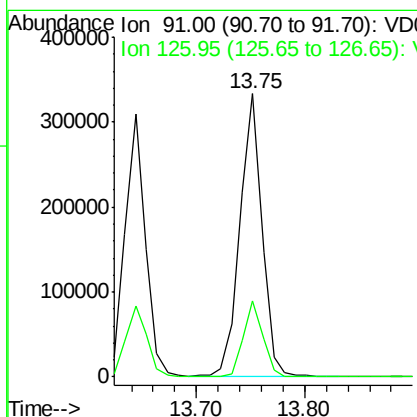
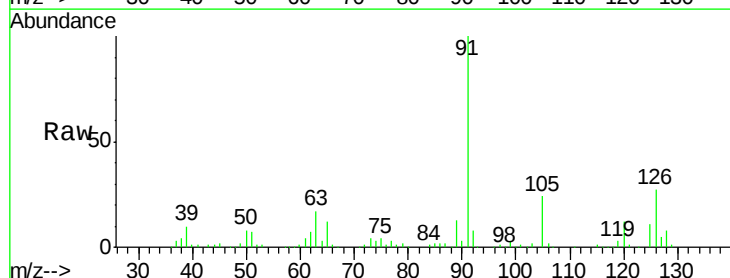
Manual Integrations
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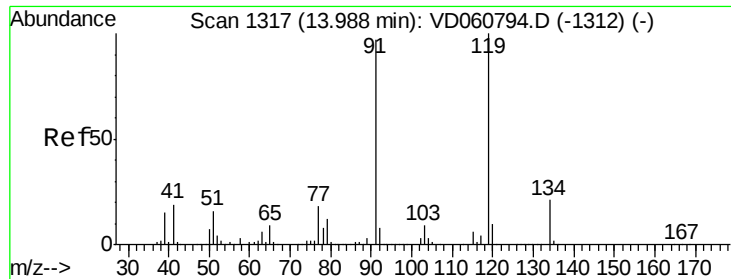
MMDadoda
1/29/2019 4:55:36 PM



#82
4-Chlorotoluene
Concen: 20.712 ug/l
RT: 13.75 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
91	100		
126	26.7	13.9	41.7





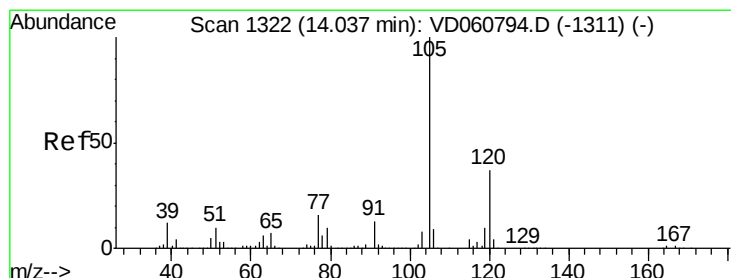
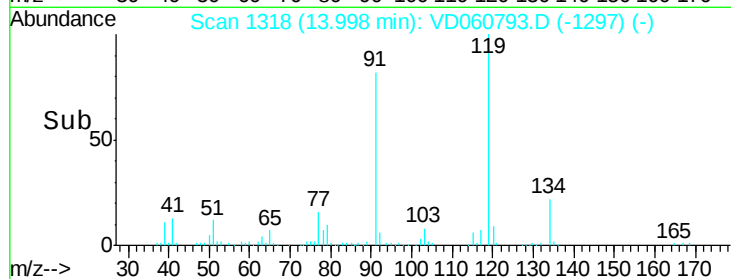
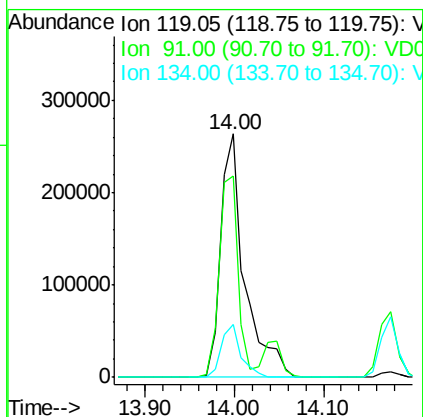
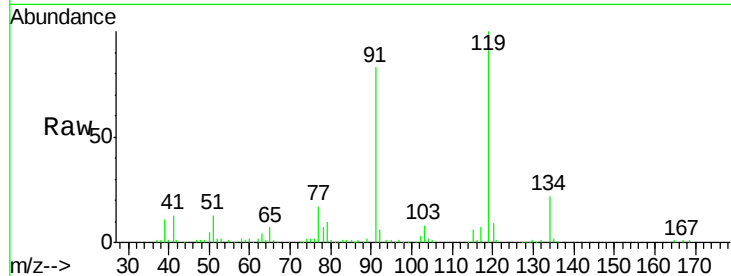
#83
tert-Butylbenzene
Concen: 20.613 ug/l
RT: 14.00 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	82.6	48.5	145.5
134	21.6	10.3	30.8

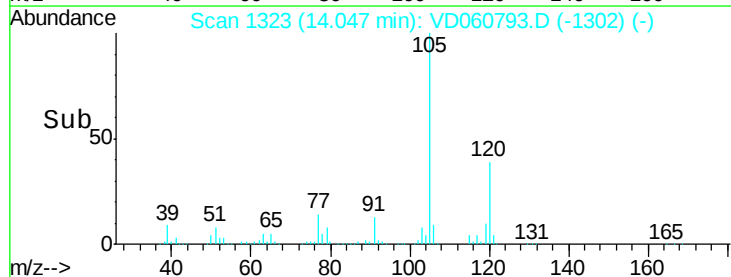
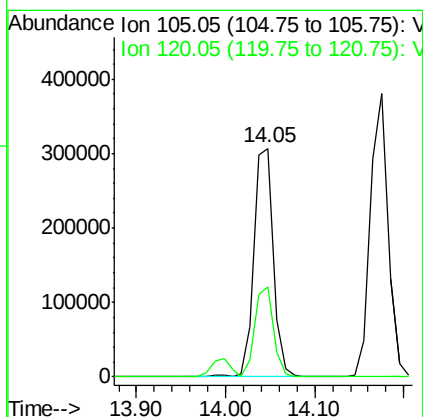
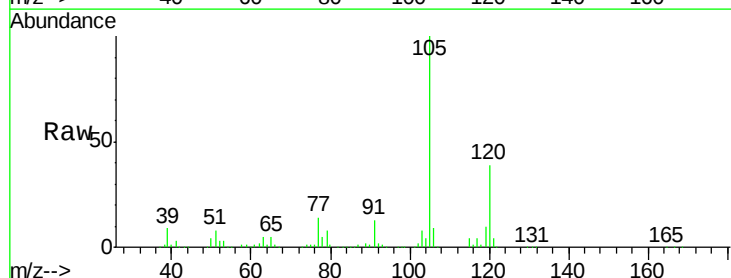
Manual Integrations
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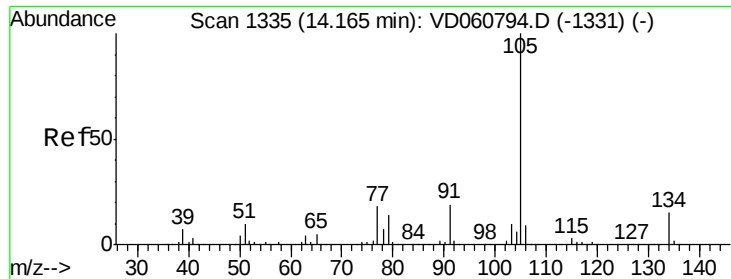
MMDadoda
1/29/2019 4:55:36 PM



#84
1,2,4-Trimethylbenzene
Concen: 19.892 ug/l
RT: 14.05 min Scan# 1323
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.3	18.4	55.2





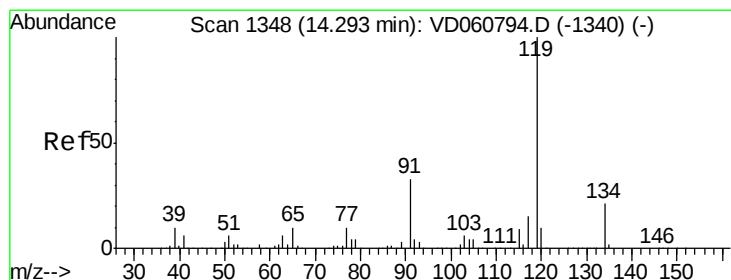
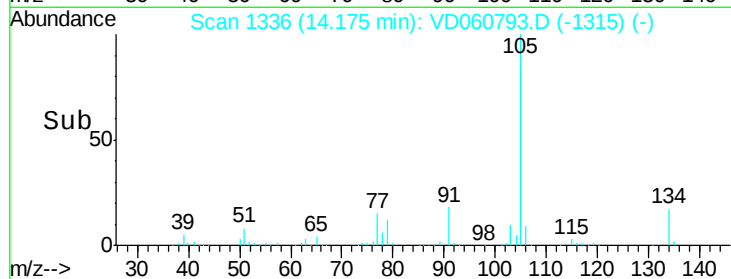
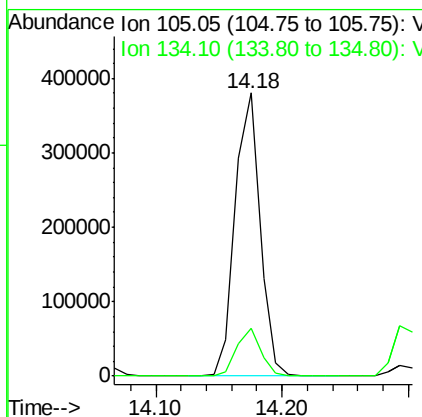
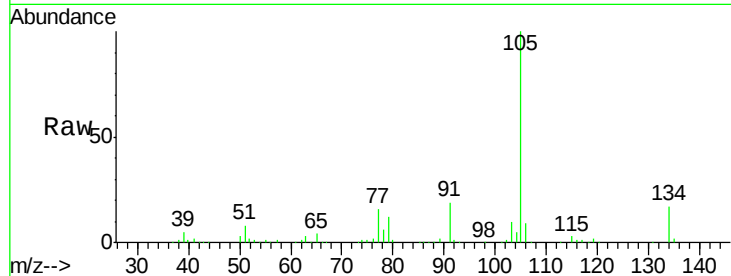
#85
 sec-Butylbenzene
 Concen: 18.931 ug/l
 RT: 14.18 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:105 Resp: 520505
 Ion Ratio Lower Upper
 105 100
 134 17.1 7.4 22.2

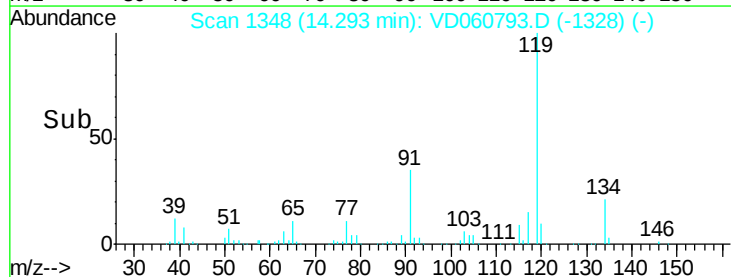
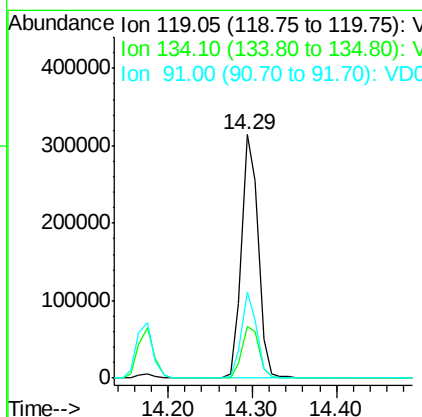
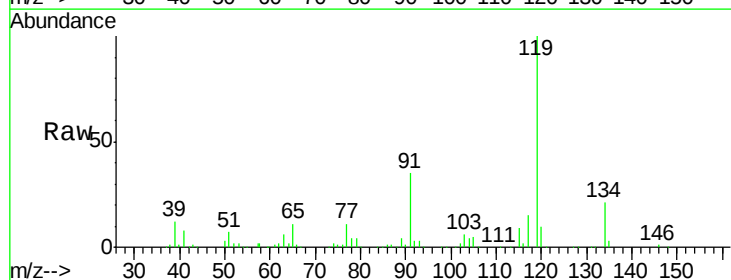
Manual Integrations
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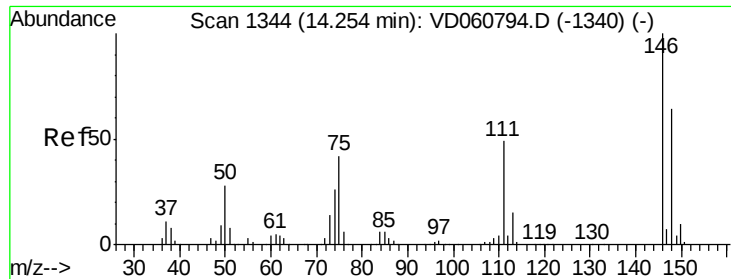
MMDadoda
 1/29/2019 4:55:36 PM



#86
 p-Isopropyltoluene
 Concen: 19.461 ug/l
 RT: 14.29 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion:119 Resp: 434410
 Ion Ratio Lower Upper
 119 100
 134 21.4 10.8 32.3
 91 35.3 16.7 50.0





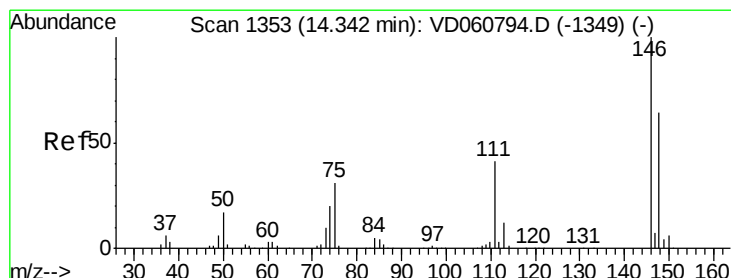
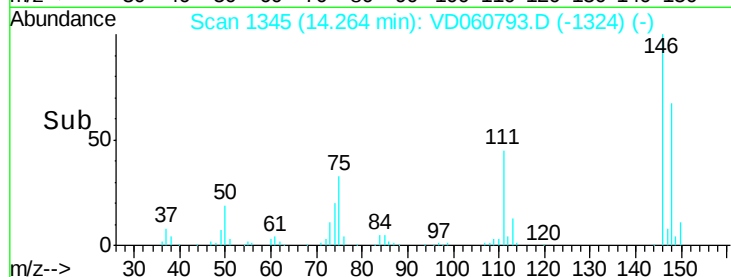
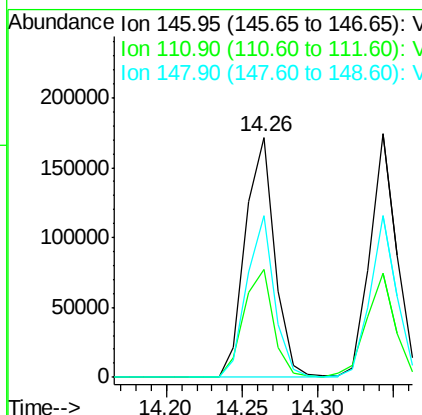
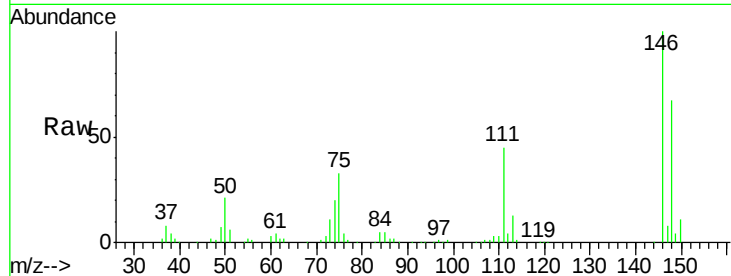
#87
 1,3-Dichlorobenzene
 Concen: 18.868 ug/l
 RT: 14.26 min Scan# 1345
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	24.3	73.0
148	67.2	32.1	96.5

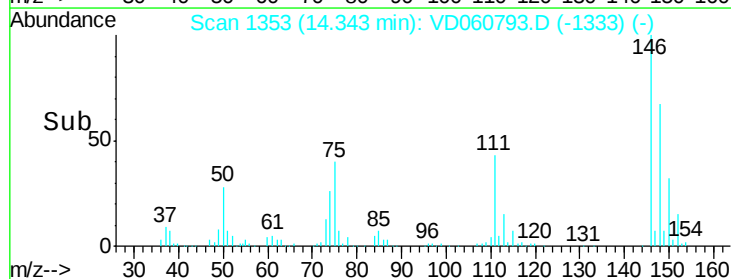
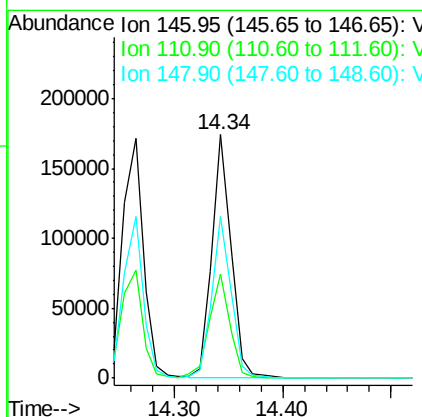
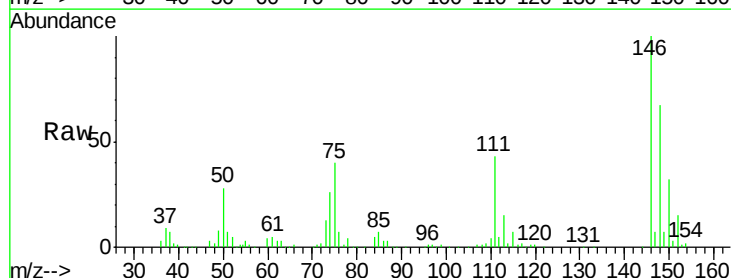
Manual Integrations
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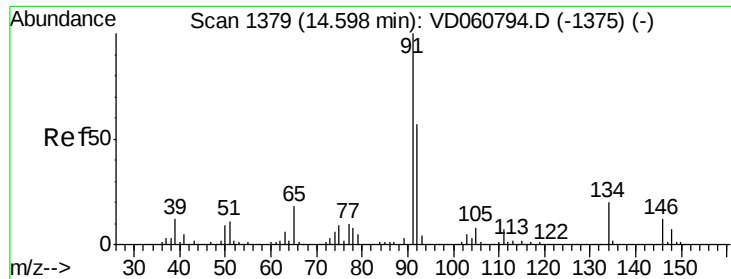
MMDadoda
 1/29/2019 4:55:36 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.018 ug/l
 RT: 14.34 min Scan# 1353
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.6	61.8
148	66.6	31.9	95.7





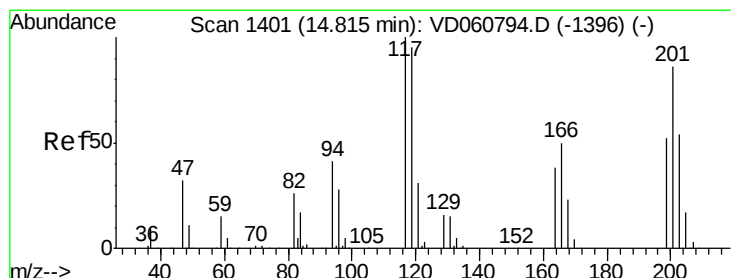
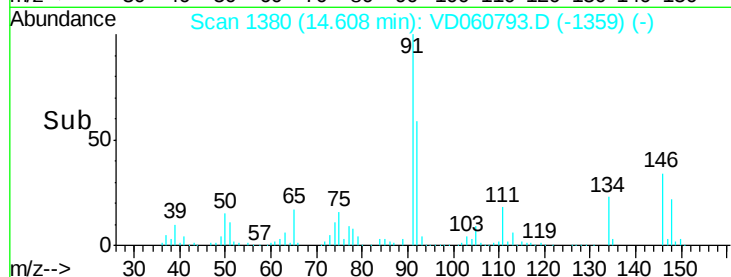
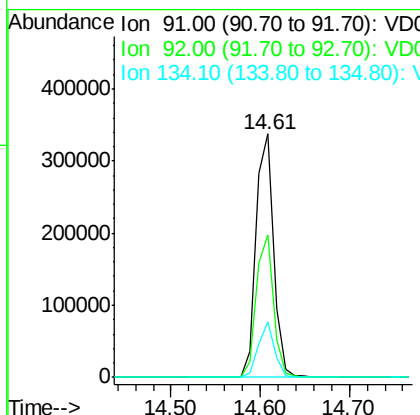
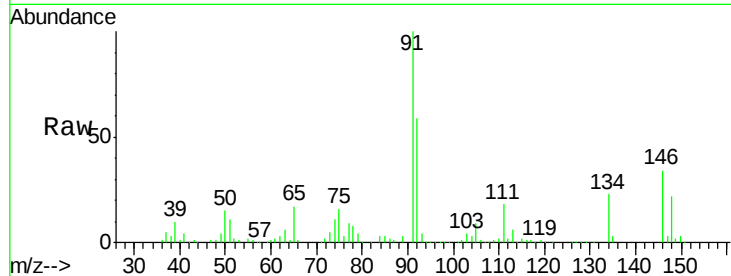
#89
n-Butylbenzene
Concen: 19.548 ug/l
RT: 14.61 min Scan# 1380
Delta R.T. 0.01 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.7	28.5	85.5
134	23.0	10.0	29.8

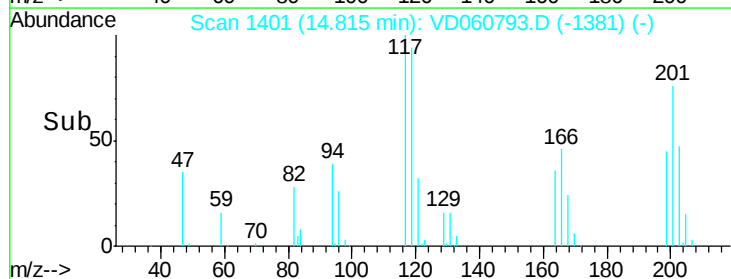
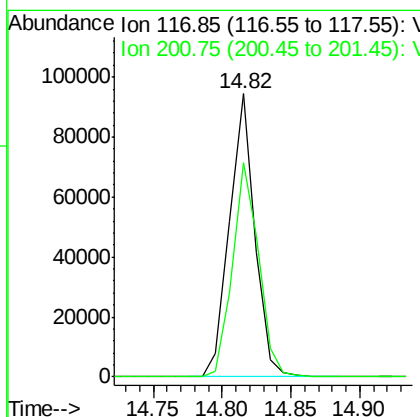
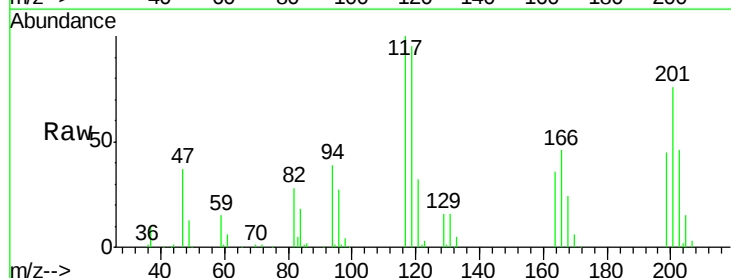
Manual Integrations
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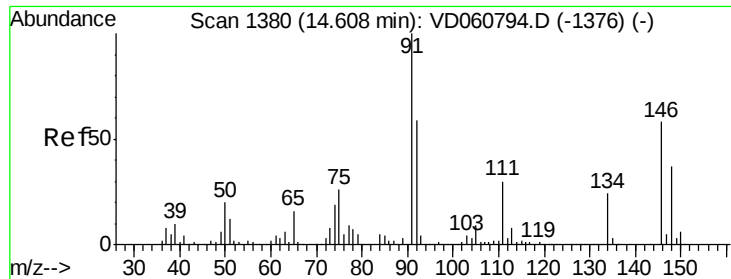
MMDadoda
1/29/2019 4:55:36 PM



#90
Hexachloroethane
Concen: 18.090 ug/l
RT: 14.82 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.7	43.0	128.8





#91

1,2-Dichlorobenzene

Concen: 19.623 ug/l

RT: 14.62 min Scan# 1381

Delta R.T. 0.01 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:146 Resp: 200830

Ion Ratio Lower Upper

146 100

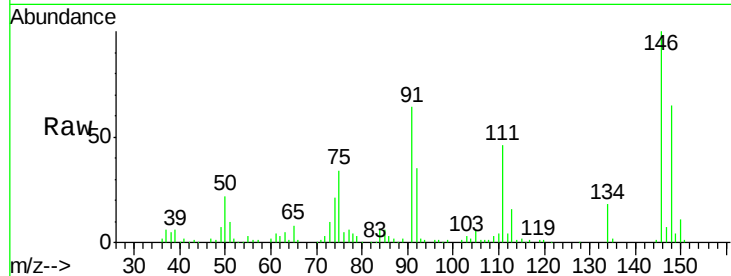
111 46.1 25.6 76.8

148 65.0 31.4 94.3

Manual Integrations
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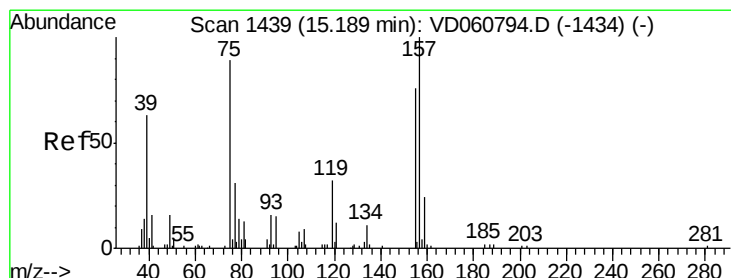
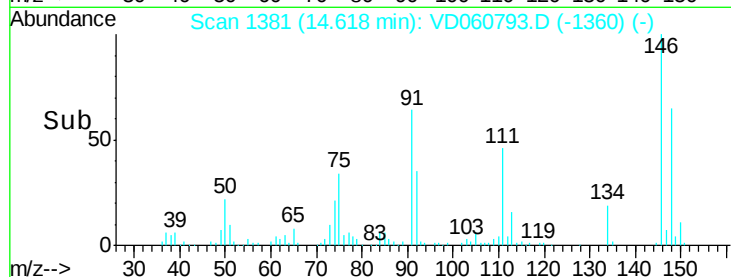
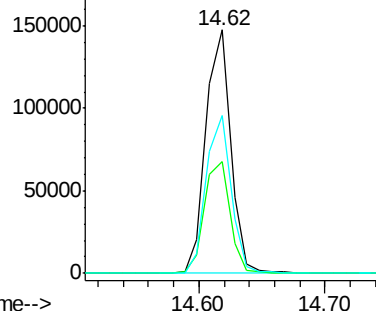
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Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.605 ug/l

RT: 15.19 min Scan# 1439

Delta R.T. 0.00 min

Lab File: VD060793.D

Acq: 28 Jan 2019 16:10

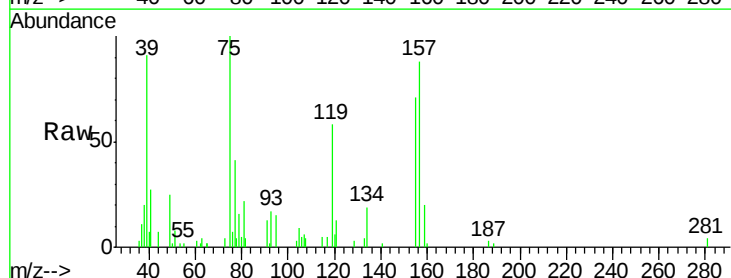
Tgt Ion: 75 Resp: 20423

Ion Ratio Lower Upper

75 100

155 71.2 43.0 129.0

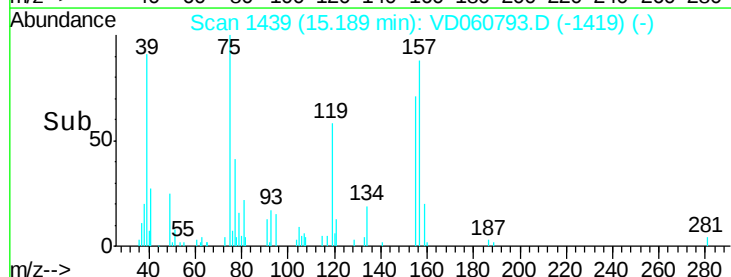
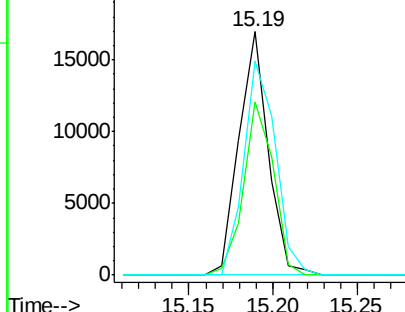
157 87.8 56.3 168.9

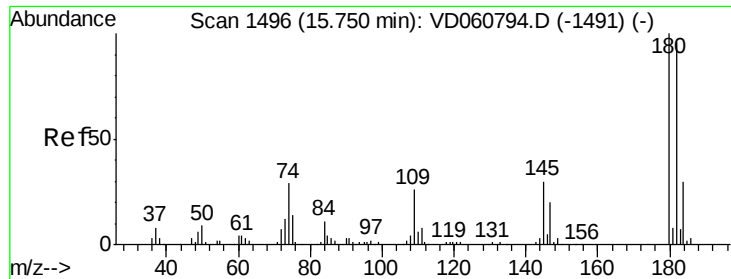


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





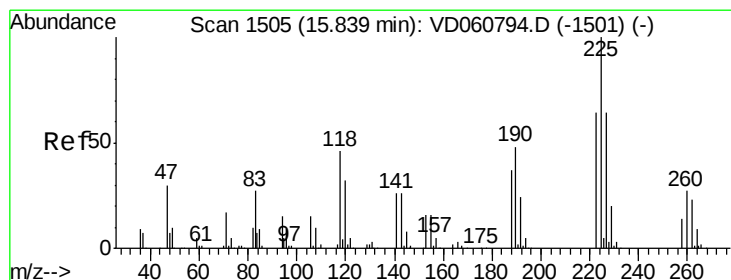
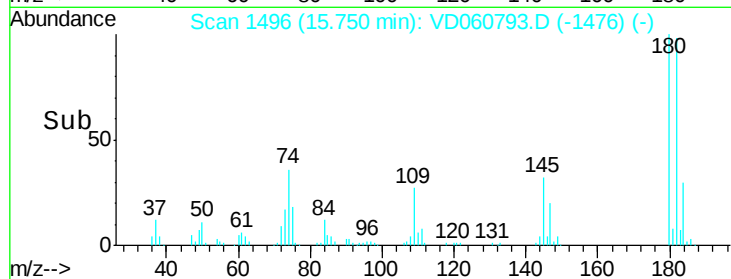
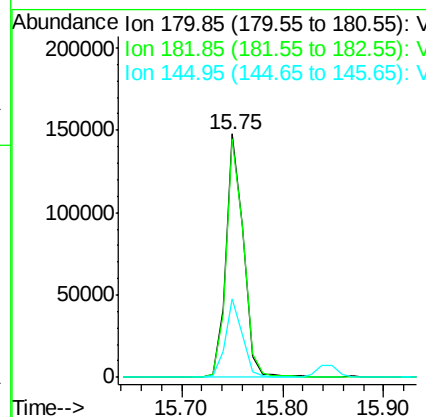
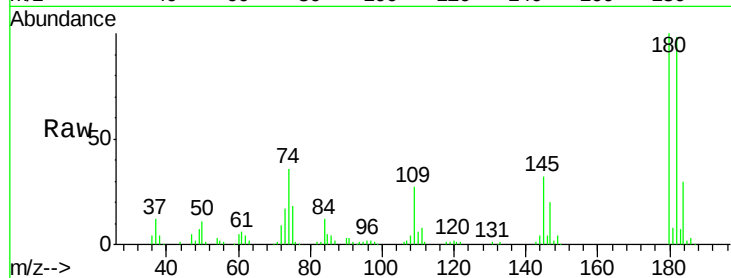
#93
 1,2,4-Trichlorobenzene
 Concen: 20.253 ug/l
 RT: 15.75 min Scan# 1496
 Delta R.T. 0.00 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	179471		
182	97.9	47.9	143.7	
145	32.0	15.0	45.1	

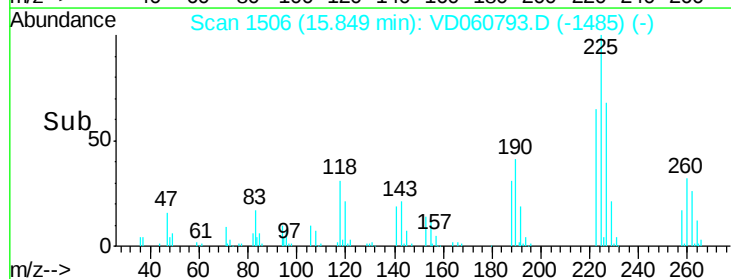
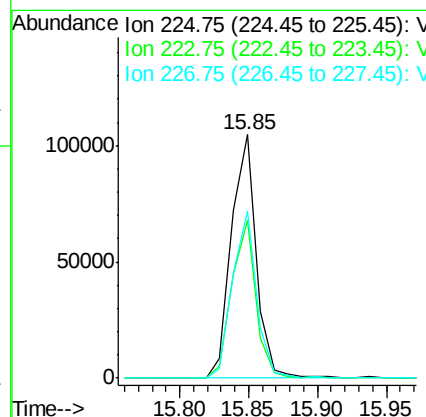
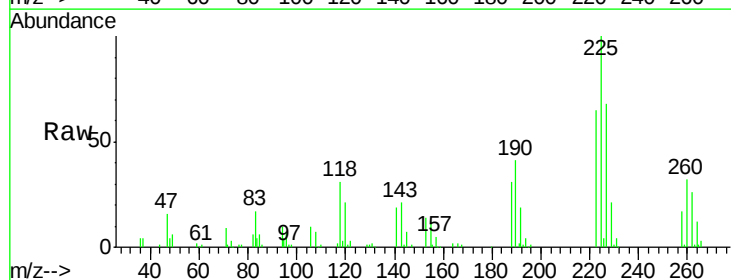
Manual Integrations
 APPROVED

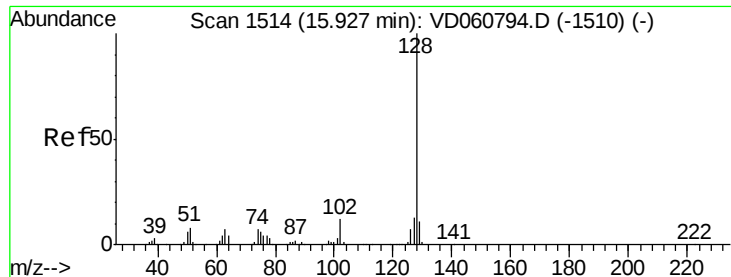
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#94
 Hexachlorobutadiene
 Concen: 19.684 ug/l
 RT: 15.85 min Scan# 1506
 Delta R.T. 0.01 min
 Lab File: VD060793.D
 Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	130877		
223	65.1	31.8	95.4	
227	68.3	31.9	95.5	





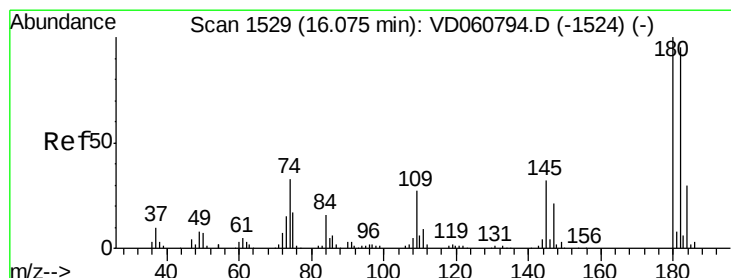
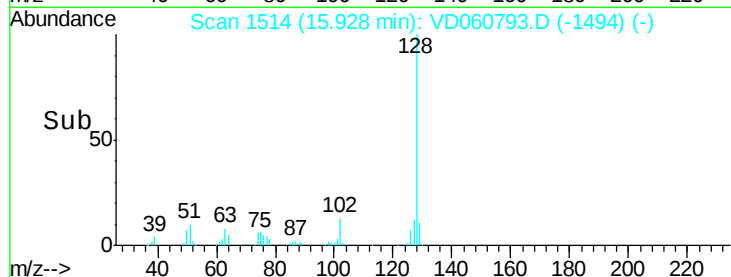
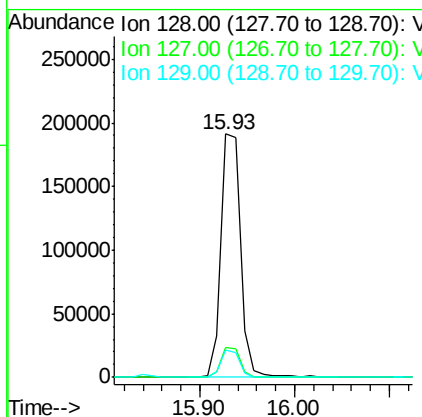
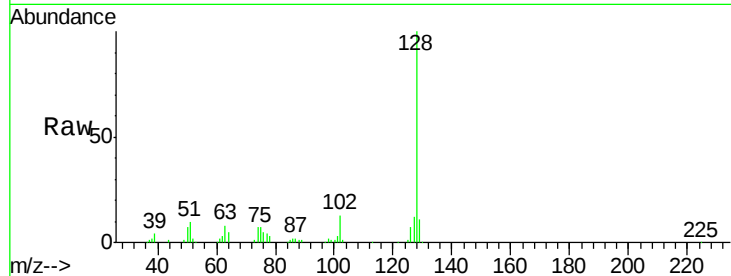
#95
Naphthalene
Concen: 20.140 ug/l
RT: 15.93 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.4	15.6
129	11.2	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
1/29/2019 4:55:36 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.439 ug/l
RT: 16.08 min Scan# 1529
Delta R.T. 0.00 min
Lab File: VD060793.D
Acq: 28 Jan 2019 16:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.4	142.3
145	36.0	15.8	47.4

